

# JAMECO<sup>®</sup>

ELECTRONICS  
Great Products, Awesome Prices!



**#1 availability  
in the industry.  
99+% in stock,  
always!**



**#1 prices  
in the industry.  
Guaranteed!**



**#1 choice  
in the industry.  
Bar None!**

1-800-831-4242

www.Jameco.com





# Your #1 Source For Availability, Prices & Choice!

## #1 Availability in the Industry!



Over 99% of this catalog's products are in stock, so you can rest assured there will be no delays. We believe this service level is unmatched by anyone in the industry.

**99+%**  
**In-Stock, Always!**

And, when you shop at Jameco, you're assured your products get to you faster! For starters, you can place your order with a live person, not just voice mail, any time of day or night. And yes, we're there to take your order by phone, fax, web or email, whichever is most convenient for you!

Place an order for any item in this catalog before 6 PM EST and we'll ship it out the same day! No questions asked, and no priority charges.

*If you need it fast, remember Jameco!*

## #1 Prices in the Industry!

For years, Jameco has offered a solid price guarantee that no one seems to dispute. Why don't the other electronic components catalogers challenge it? We think because they can't; the Jameco price guarantee is just that good! Simply stated, Jameco has the lowest prices you'll find in any catalog or advertisement – period. *We guarantee it!*

So if you ever run into a print-advertised price that's lower than an identical item in our catalog, we'll not only match the lower price, we'll beat it by an additional 10%, right down to our cost. No fine print, and no questions asked!

*Everyone saves, and saves big with Jameco Electronics. Guaranteed!*



## #1 Choice in the Industry!



Jameco is very different; a good different. We strive to provide you with *Real Choice*. Instead of offering several different brands of the same product, all priced about the same, and all of about the same specification, we offer a *Real Choice*. In addition to offering popular name brands at the lowest prices for BOMs and AVLs that require them, we also offer in-house brands for additional savings.

We offer professional-grade Jameco house brands of non-semiconductor products at substantially reduced prices; typically 20-30% below popular name brands. Instead of offering multiple name brands of a single-class, all at about the same price, Jameco gives you a *Real Choice* unavailable from other distributors.

Jameco makes comparisons easier too! We offer side-by-side listings, allowing you to compare like products on the same catalog page. Whether you need a name brand or the extra savings of Jameco's house brand, you are able to easily compare the products and prices, even when considering volume discounts! At Jameco, *Real Choice* has real value.

*Are you taking advantage of the choice?*



## More Great Services – Online & Off!

*It is possible to get both the best prices and the best services, all in one spot.*

You'll find a host of other valuable services available on our web site too! Sure, most products include FREE detailed manufacturer's specifications in PDF form.

And yes, you'll find the latest price updates. We also have hundreds of thousands of product cross references, so you'll be able to find alternatives to the specific manufacturer's part number you have.

Frequent buyers benefit further. We'll assign a personal rep who understands your needs, product requirements, logistical issues and more. And you don't have to be the size of IBM to receive this personalized service!



*At Jameco, you can be sure you're getting the best combination of price and service around!*



## RoHS Compliant Products

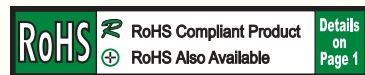
Jameco brings you even more CHOICE! Yes, we'll continue to be your prime

source for the *lowest-priced* legacy products, and now over 80% of the products in this catalog are available in RoHS compliant versions for those shipping product to the European Union!

Products are coded for your convenience. RoHS compliant products are marked with the . Many other non-compliant products have a  to indicate both compliant and non-compliant versions are available. Simply add an R to the beginning of the non-compliant Part Number and you'll get the RoHS equivalent product at the best available market price.

*Need more RoHS information? Visit our web site at [www.Jameco.com/RoHS](http://www.Jameco.com/RoHS).*

Products throughout the catalog and web site are identified as RoHS compliant. Based on information provided solely by our suppliers, identified products do not contain the substances prohibited by the European Community Directive (2002/95/EC) on the Restriction of the use of certain Hazardous Substances, commonly known as the RoHS Directive, at levels in excess of the anticipated maximum concentration values. Since not all member states of the European Community have implemented the RoHS Directive into their national law as of the printing of this catalog, the foregoing represents our understanding of how the law is likely to be implemented. Jameco obtains RoHS compliance status solely from its suppliers and does not verify or confirm such status.



## Rapid Growth: Jameco Style!

Over the last couple of years, Jameco's product line has been growing at a very rapid pace. This catalog alone has over 12% more products than last quarter's catalog! And we continue to provide same-day shipping on over 99% of our catalog products.

Jameco guarantees the lowest prices! We're committed to helping you save, whether you prefer a name-brand product or a lower-cost generic equivalent of comparable quality.

So thumb through this catalog today; we think you'll be amazed at the number of new products added and the low, low everyday prices!



## Check Out These Money Saving Sample Price Comparisons\*

Take a look through this sampling of recent price differences among our competitors, and take advantage of the substantial savings! Pricing will fluctuate, so please be sure to double-check when making purchases. But always remember, with Jameco you'll always get the lowest price! GUARANTEED!

Product Description	Jameco® Part No.	Jameco Page #	Jameco® Price	Digi-Key® Corp.	Mouser® Electronics	Newark InOne®	Minimum Savings Discount	
Cap, Tant, 2.2uf, 35V	33734CM	68	\$0.35	N/A	\$0.47	\$0.643	\$0.12	25.5%
Capacitor, Mica, 1nF, 100V, 5%	16011CM	70	\$1.19	\$3.80	N/A	\$1.90	\$0.71	37.4%
Cermet Pot, 50k, 3362P-503	254027CM	86	\$0.59	\$0.83	N/A	\$0.981	\$0.24	28.9%
Connector, BNC, Amphenol 31-2221	223538CM	151	\$2.89	\$4.18	\$3.90	\$4.26	\$1.01	25.9%
Connector, Molex, 10-11-2083, 8 pin	516277CM	135	\$0.30	\$0.63	\$0.63	\$0.386	\$0.086	22.3%
EEPROM, 24C01128x8, DIP	276592CM	12	\$0.36	\$0.45	\$0.48	\$0.48	\$0.09	20.0%
Fan, 16.6CFM, 2.36" sq. x 0.6", 24VDC	421518CM	213	\$8.09	\$10.00	\$11.09	\$10.35	\$1.91	19.1%
Logic, 74ACT138, DIP	212038CM	16	\$0.25	\$0.68	N/A	\$0.432	\$0.182	42.1%
Logic, 74AHC374, DIP	214210CM	17	\$0.44	\$0.66	N/A	\$0.66	\$0.22	33.3%
Logic, 74ALS240A, DIP	245753CM	25	\$0.63	\$0.75	\$0.99	N/A	\$0.12	16.0%
MOC3010 Opto-isolator	26278CM	47	\$0.56	\$0.79	\$0.87	\$0.821	\$0.23	29.1%
Relay, 4PDT, 5A, 12 VDC	291506CM	201	\$4.45	\$7.87	\$7.06	\$9.90	\$2.61	37.0%
Term Block, 12 pos, 10mm	215028CM	158	\$1.89	\$8.69	N/A	\$4.58	\$2.69	58.7%
Toroid, 150uH, Vertical	208320CM	88	\$4.35	\$6.24	N/A	\$6.25	\$1.89	30.3%
Wire, 18AWG, Std, Blk, UL1007	125786CM	103	\$5.79	\$30.83	\$19.64	\$27.60	\$13.85	70.5%

\* This chart is a snapshot of single-unit prices taken from each party's website on June 7, 2006. Prices shown do not reflect added shipping & handling charges or any available discounts.

## Contact Information

### Order Desk 24/7, 365 Days a Year

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E-mail: [Credit@Jameco.com](mailto:Credit@Jameco.com)

### International Order Desk

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E-mail: [International@Jameco.com](mailto:International@Jameco.com)

### International Toll-Free Fax

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Mexico: 001-800-593-1449

Indonesia: 1-803-015-237-6948

Brazil: 000-817-455-6119

New Zealand: 080-044-0470

### The Jameco RobotStore

Phone: 1-800-374-5764

Website: [www.RobotStore.com](http://www.RobotStore.com)

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## PRICES

Prices are effective 07-10-06.

Prices and discounts are subject to change without notice.

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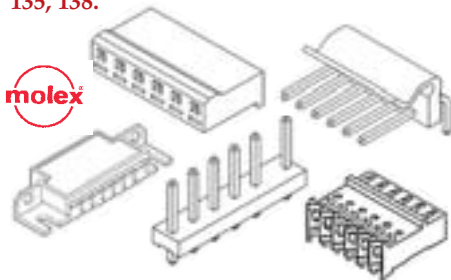
## More Name Brands— Bigger Savings!

This catalog features 12% more products than our previous edition. It's loaded with the new, popular, name-brand products you use most often.

## Molex: de facto Modular Connectors

Molex has built its reputation on modular connectors systems that ease your design work and implementation. This catalog now offers their lines of KK and SPOX "building block" connectors, allowing tens of thousands of different wire-to-wire, wire-to-board and board-to-board configurations. Look to pages 127, 130 & 135 for hundreds of high-density signal to lower density, high-current devices.

Check out Molex on pages 126-127, 130, 135, 138.



## CDE Capacitors

Jameco just added hundreds of CDE capacitors to its catalog. Turn to pages 66-70 for a complete selection of snap-mount electrolytic, metallized polyester film and silver mica devices. Plus, we've added quite a few ceramic disk and axial devices to round out our established selections.

Check out CDE on pages 66-71.



## Now Expanded: Amphenol RF



Looking for a more durable alternative to Amphenol's Connex line of high-frequency connectors? Jameco just expanded its offering of the Amphenol RF series commercial-grade connectors for those who prefer solder and clamp style connectors over crimp. Remember: they're all priced to help you save big!

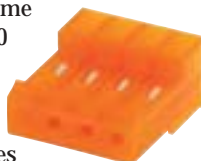
Be sure to look at pages 150-153.

Amphenol RF

## AMP MTA-100 IDC Connectors

Reduce production time with Amp's MTA-100 crimp connectors. These connectors accept discrete and ribbon cable wire sizes ranging from 22-28 AWG. Tin plated solid, fused-stranded, or stranded wire with PVC insulation can be used.

Be sure to see pages 128-129.



AMP

## P&B General Purpose Relays

Be sure to turn to pages 196-197 and review our expanded selection of Potter & Brumfield general purpose relays. We just added more of the KU series, as well as others, based on your feedback to us.

See page 197 for new KU Series.

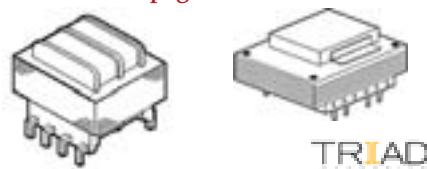


P&B

## Triad Power Transformers

This catalog offers more Triad power transformers in a wide selection of plug-in types to meet the needs of chassis, PC board and solid-state power supply designs. Configurations include single/dual primaries and center-tapped secondaries. Use the split-bobbin design for PC board applications requiring low capacitive coupling and the Quick Pack series for a significant reduction in size and weight for a given VA rating.

Be sure to see pages 245-247 & 336.

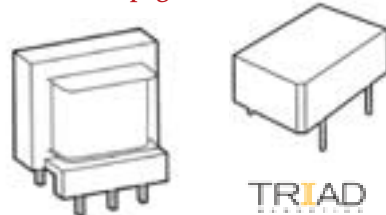


TRIAD

## Triad Small-Signal Transformers

We continue to expand our selection of Triad small-signal products! Now you'll find a wide selection of the popular miniature audio transformers in PC mount configurations.

Be sure to see pages 92 & 336.



TRIAD

## Not Finding What You Need?

Jameco offers 10's of 1,000's more products on our web site. Just visit [www.Jameco.com](http://www.Jameco.com) and enter the needed manufacturer's part number in our part search box located at the top left corner. Then click on Go to quickly discover which items we have, available cross references and some recommended substitutes.





## Amp: An Industry Standard

Looking for the biggest name in quality connectors? This catalog now offers a broad range of D-Sub connectors in vertical and right-angle PC-mount configurations, as well as mounting hardware.

See pages 121-123 for the latest details.

**AMP**



## It's a Cinch with Cinch



**Cinch**

Jameco now offers a wide range of Cinch's D-Sub connectors and mounting hardware. Check out page 124 and review these tough steel-shelled products. Best of all, you'll get them at Jameco's lowest prices—guaranteed!

Be sure to see pages 123-125.

## Now a Broader Wire Selection!

Jameco's catalog just extended its line of quality Belden products, as well as adding more products from AlphaWire. Now you can find a complete selection of shielded and unshielded twisted-pair and coaxial cable plus hookup wire—all from your favorite source for the lowest guaranteed prices!

See pages 97-104 for the latest details.



## Switches—Over 600 New!

We just added over 600 reasons why you should shop Jameco for all your switch needs. No matter what the configuration, we probably have it from the manufacturer you prefer. Just look for BCD, DIP, Hex, Keylock, Keypad, Knife, Lever, Magnetic Reed, Pushbutton, Rocker, Roller and Snap configurations.

See pages 171-194.



Alcoswitch

GC

CK

CHERRY

## Digital I/O Modules

Now Jameco is the source for your digital relay needs too! We just added numerous modules from both Potter & Brumfield, the de facto in relay technologies, as well as Grayhill, the leader in IEEE 472 devices, to meet your most demanding needs.

Be sure to see pages 197-198.



**PB**

Grayhill

## Molex Terminal Blocks

Now you can find Molex barrier terminal blocks in Jameco's catalog! These well-constructed, low-profile wire-to-wire connectors are ideal for most situations. Closed-bottom design allows them to be mounted directly to chassis panels.

Be sure to see page 156.

**molex**

## Molex Solderless Terminals

Now you can find the Molex solderless terminals you need, right in this catalog! Turn to pages 160-162 for quick-disconnects, splices, ring, spade and other terminals. And since you're getting them from Jameco, you know you'll be getting the lowest prices—guaranteed!

Be sure to see pages 160-162.



**molex**

## AMP Plastic CPC Connectors



**AMP**

Combine signal, coaxial and power circuit capabilities in one connector! These rugged, commercial, all-plastic systems feature positive-lock coupling rings to prevent decoupling. Use with a broad 30-8 gauge wire range in wire-to-wire, wire-to-panel and wire-to-board configurations.

Check out AMP on pages 118-119.

## More VCC LED Accessories!

Make Jameco your one-stop source for high-intensity LEDs and their complex mounting accessories! Check out pages 53-55 to find the latest litepipes for PCB and panel-mounted LEDs, cable assemblies, panel mounts and much more.

Be sure to see pages 52-55.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

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## PIC Microcontrollers

DIP



SOIC



Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
145058CM	PIC12C509A/JW	DIP-8	EPROM	4	1k	41	5	\$12.69	\$11.54
200521CM	PIC18C452/JW	DIP-40	EPROM	40	32k	1536	23	21.49	20.60
310973CM	PIC10F200-I/P	DIP-8	Flash	4	384	16	4	.88	.82
310981CM	PIC10F202-I/P	DIP-8	Flash	4	768	24	4	1.03	.94
311010CM	PIC10F204-I/P	DIP-8	Flash	4	384	16	4	1.02	.94
311028CM	PIC10F206-I/P	DIP-8	Flash	4	768	24	4	1.16	1.08
145111CM	PIC16F84-04/P	DIP-18	Flash	4	1k	68	13	6.59	4.39
145120CM	PIC16F84-10/P	DIP-18	Flash	10	1k	68	13	7.09	6.49
223790CM	PIC12F629-I/P	DIP-8	Flash	20	1k	64	6	1.49	1.25
247193CM	PIC12F629-I/SN	SOIC-8	Flash	20	1k	64	6	1.59	1.41
312493CM	PIC12F635-I/P	DIP-8	Flash	20	2k	64	6	1.79	1.66
312506CM	PIC12F635-I/SN	SOIC-8	Flash	20	2k	64	6	1.79	1.66
223781CM	PIC12F675-I/P	DIP-8	Flash	20	1k	64	6	1.69	1.07
247206CM	PIC12F675-I/SN	SOIC-8	Flash	20	1k	64	6	1.95	1.66
312514CM	PIC12F683-I/P	DIP-8	Flash	20	4k	128	6	2.19	2.05
312522CM	PIC12F683-I/SN	SOIC-8	Flash	20	4k	128	6	2.19	2.05
323096CM	PIC16F505-I/P	DIP-14	Flash	20	1k	72	12	1.65	1.49
312531CM	PIC16F54-I/P	DIP-18	Flash	20	512	25	12	1.79	1.73
312549CM	PIC16F54-I/SO	SOIC-18	Flash	20	512	25	12	1.79	1.73
312557CM	PIC16F57-I/P	DIP-28	Flash	20	2k	72	20	2.39	2.29
312565CM	PIC16F57-I/SO	SOIC-28	Flash	20	2k	72	20	2.29	2.21
193439CM	PIC16F627-20/P	DIP-18	Flash	20	1k	224	16	3.29	2.88
193447CM	PIC16F628-20/P	DIP-18	Flash	20	2k	224	16	3.49	2.52
246730CM	PIC16F628-20/SO	SOIC-18	Flash	20	2k	224	16	3.69	2.88
246748CM	PIC16F628-20/SS	SSOP-20	Flash	20	2k	224	16	3.09	2.82
246756CM	PIC16F628-20I/P	DIP-18	Flash	20	2k	224	16	4.05	3.15
246764CM	PIC16F628-20I/SO	SOIC-18	Flash	20	2k	224	16	3.39	3.17
223749CM	PIC16F630-I/P	DIP-14	Flash	20	1k	64	12	1.89	1.67
247126CM	PIC16F630-I/SL	SOIC-14	Flash	20	1k	128	12	1.85	1.65
247134CM	PIC16F630-I/ST	TSSOP-14	Flash	20	1k	128	12	1.95	1.85
312573CM	PIC16F636-I/P	DIP-14	Flash	20	2k	128	12	2.09	1.91
312581CM	PIC16F636-I/ST	TSSOP-14	Flash	20	2k	128	12	2.19	2.05
247142CM	PIC16F648A-I/P	DIP-18	Flash	20	4k	256	16	3.25	2.55
247151CM	PIC16F648A-I/SO	SOIC-18	Flash	20	4k	256	16	2.95	2.58
247169CM	PIC16F648A-I/SS	SSOP-20	Flash	20	4k	256	16	3.05	2.80
223757CM	PIC16F676-I/P	DIP-14	Flash	20	1k	64	12	2.39	1.40
247177CM	PIC16F676-I/SL	SOIC-14	Flash	20	1k	64	12	2.15	1.95
247185CM	PIC16F676-I/ST	TSSOP-14	Flash	20	1k	64	12	2.35	2.10
312590CM	PIC16F684-I/P	DIP-14	Flash	20	2k	128	12	2.25	1.85
312602CM	PIC16F684-I/ST	TSSOP-14	Flash	20	2k	128	12	2.59	2.39
312611CM	PIC16F688-I/P	DIP-14	Flash	20	4k	256	12	2.79	2.59
312629CM	PIC16F688-I/ST	TSSOP-14	Flash	20	4k	256	12	3.05	2.79
312637CM	PIC16F716-I/P	DIP-18	Flash	20	2k	128	13	2.35	2.17
312645CM	PIC16F716-I/SO	SOIC-18	Flash	20	2k	128	13	2.35	2.17
312661CM	PIC16F72-I/SO	SOIC-18	Flash	20	2k	128	13	3.15	2.90
312653CM	PIC16F72-I/SP	DIP-28	Flash	20	2k	128	13	2.05	2.00
312688CM	PIC16F737-I/SO	SOIC-28	Flash	20	4k	368	25	5.55	4.75
312670CM	PIC16F737-I/SP	DIP-28	Flash	20	4k	368	25	5.39	4.65
246801CM	PIC16F73-I/SO	SOIC-28	Flash	20	4k	192	22	4.85	4.55
193391CM	PIC16F73-I/SP	DIP-28	Flash	20	4k	192	5	5.19	4.22
246810CM	PIC16F73-I/SS	SSOP-28	Flash	20	4k	192	22	4.95	4.65
312696CM	PIC16F747-I/P	DIP-40	Flash	20	4k	368	36	6.45	5.45
246772CM	PIC16F74-I/L	PLCC-44	Flash	20	4k	192	33	6.39	5.79
193404CM	PIC16F74-I/P	DIP-40	Flash	20	4k	192	8	6.19	5.47
246781CM	PIC16F74-I/P	TQFP-44	Flash	20	4k	192	33	6.85	6.60
312717CM	PIC16F767-I/SO	SOIC-28	Flash	20	8k	368	25	6.69	5.63
312709CM	PIC16F767-I/SP	DIP-28	Flash	20	8k	368	25	6.29	5.38
246828CM	PIC16F76-I/SO	SOIC-28	Flash	20	8k	368	22	5.85	5.65
193412CM	PIC16F76-I/SP	DIP-28	Flash	20	8k	368	5	6.49	5.65
246836CM	PIC16F76-I/SS	SSOP-28	Flash	20	8k	368	22	5.99	5.79
312725CM	PIC16F777-I/P	DIP-40	Flash	20	8k	368	36	6.55	6.05
246799CM	PIC16F77-I/L	PLCC-44	Flash	20	8k	368	33	7.55	7.35
193421CM	PIC16F77-I/P	DIP-40	Flash	20	8k	368	8	5.25	4.79
223765CM	PIC16F818-I/P	DIP-18	Flash	20	1k	128	16	2.75	2.36

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

PIC Microcontrollers
SSOP

PLCC

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247054CM	PIC16F818-I/SO	SOIC-18	Flash	20	1k	128	16	\$2.75	\$2.45
247062CM	PIC16F818-I/SS	SSOP-20	Flash	20	1k	128	16	2.95	2.62
223773CM	PIC16F819-I/P	DIP-18	Flash	20	2k	256	16	2.85	2.29
247090CM	PIC16F819-I/SO	SOIC-18	Flash	20	2k	256	16	3.55	2.75
247071CM	PIC16F819-I/SS	SSOP-20	Flash	20	2k	256	16	3.35	2.95
193332CM	PIC16F84A-20/P	DIP-18	Flash	20	1k	68	13	5.59	4.66
246844CM	PIC16F84A-20/SO	SOIC-18	Flash	20	1k	68	13	5.45	5.15
246852CM	PIC16F84A-20/SS	SSOP-20	Flash	20	1k	68	13	5.95	5.75
246861CM	PIC16F84A-20I/P	DIP-18	Flash	20	1k	68	13	6.25	5.55
246879CM	PIC16F84A-20I/SO	SOIC-18	Flash	20	1k	68	13	5.85	5.65
246887CM	PIC16F84A-20I/SS	SSOP-20	Flash	20	1k	68	13	6.55	6.30
246908CM	PIC16F870-I/SO	SOIC-28	Flash	20	2k	128	22	4.05	3.90
246895CM	PIC16F870-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.05
246916CM	PIC16F870-I/SS	SSOP-28	Flash	20	2k	128	22	4.25	4.00
246932CM	PIC16F871-I/L	PLCC-44	Flash	20	2k	128	33	5.85	5.68
246924CM	PIC16F871-I/P	DIP-40	Flash	20	2k	128	33	5.15	4.25
246959CM	PIC16F872-I/SO	SOIC-28	Flash	20	2k	128	22	4.05	3.88
246941CM	PIC16F872-I/SP	DIP-28	Flash	20	2k	128	22	4.35	3.73
246967CM	PIC16F872-I/SS	SSOP-28	Flash	20	2k	128	22	4.15	4.00
246975CM	PIC16F873A-I/SP	DIP-28	Flash	20	4k	192	22	6.29	5.50
247003CM	PIC16F874A-I/L	PLCC-44	Flash	20	4k	192	33	7.35	7.10
246991CM	PIC16F874A-I/P	DIP-40	Flash	20	4k	192	33	6.75	6.00
193367CM	PIC16F876-20/SP	DIP-28	Flash	20	256	368	22	6.79	4.85
247020CM	PIC16F876A-I/SO	SOIC-28	Flash	20	8k	368	22	6.05	5.95
247011CM	PIC16F876A-I/SP	DIP-28	Flash	20	8k	368	22	6.19	4.17
176882CM	PIC16F877-20/P	DIP-40	Flash	20	256	368	33	9.29	8.05
247046CM	PIC16F877A-I/L	PLCC-44	Flash	20	8k	368	33	8.15	7.65
247038CM	PIC16F877A-I/P	DIP-40	Flash	20	8k	368	33	7.25	4.80
247097CM	PIC16F87-I/P	DIP-18	Flash	20	4k	368	16	3.39	3.15
247100CM	PIC16F87-I/SO	SOIC-18	Flash	20	4k	368	16	3.45	3.19
247118CM	PIC16F87-I/SS	SSOP-20	Flash	20	4k	368	16	3.85	3.69
312733CM	PIC16F88-I/P	DIP-18	Flash	20	7k	368	16	4.15	3.05
312741CM	PIC16F88-I/SO	SOIC-18	Flash	20	7k	368	16	4.25	3.59 3.42
248090CM	PIC18F1220-I/P	DIP-18	Flash	40	2k	256	16	4.35	3.89
248102CM	PIC18F1220-I/SO	SOIC-18	Flash	40	2k	256	16	4.15	3.95
248111CM	PIC18F1320-I/P	DIP-18	Flash	40	4k	256	16	4.89	4.40
248129CM	PIC18F1320-I/SO	SOIC-18	Flash	40	4k	256	16	4.65	4.40
311861CM	PIC18F2220-I/SP	DIP-28	Flash	40	4k	512	25	6.69	6.15
311917CM	PIC18F2320-I/SO	SOIC-28	Flash	40	8k	512	25	7.05	6.65
311909CM	PIC18F2320-I/SP	DIP-28	Flash	40	8k	512	25	7.05	6.64
311984CM	PIC18F2331-I/SO	SOIC-28	Flash	40	8k	512	25	7.79	7.17
311950CM	PIC18F2331-I/SP	DIP-28	Flash	40	8k	768	24	7.85	7.21
247986CM	PIC18F242-I/SO	SOIC-28	Flash	40	8k	768	23	7.39	6.61

Blue Part No. = Limited Quantity Available

## Programming & Customizing PICmicro Microcontrollers

### Second Edition

**McGraw-Hill** Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. (1190 pages, 2001)

**Includes:** PIC PCB

Part No.	Description	Size	Wt. (lbs.)	Price
183046CM	PICmicro Programming	9.2" x 7.3"	4.0	\$49.95

## Easy Microcontrol'n

### Beginners Guide (Version 4)

**Square 1 Electronics** A revision of and successor to Easy PIC'n that covers Peripheral Interface Controller (PIC) PIC16F84, writing programs, interrupts, timing and counting. (178 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
215061CM	Easy Microcontrol'n	8.5" x 11.0"	1.2	\$34.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# Microcontrollers

PIC Microcontrollers
DIP

SOIC

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247978CM	PIC18F242-I/SP	DIP-28	Flash	40	8k	768	23	\$7.39	\$6.61
312098CM	PIC18F2431-I/SO	SOIC-28	Flash	40	16k	768	24	8.05	7.45
312071CM	PIC18F2431-I/SP	DIP-28	Flash	40	16k	768	24	8.09	7.90
312274CM	PIC18F2439-I/SO	SOIC-28	Flash	40	12k	640	21	7.09	6.79
312231CM	PIC18F2439-I/SP	DIP-28	Flash	40	12k	640	21	7.09	6.79
312291CM	PIC18F248-I/SO	SOIC-28	Flash	40	16k	768	22	8.49	7.85
312282CM	PIC18F248-I/SP	DIP-28	Flash	40	16k	768	22	8.49	8.15
312311CM	PIC18F2525-I/SO	SOIC-28	Flash	40	48k	3986	25	8.75	7.70
312303CM	PIC18F2525-I/SP	DIP-28	Flash	40	48k	3986	25	9.05	8.31
248006CM	PIC18F252-I/SO	SOIC-28	Flash	40	16k	1536	23	8.05	7.20
247994CM	PIC18F252-I/SP	DIP-28	Flash	40	16k	1536	23	8.05	6.60
312346CM	PIC18F2539-I/SO	SOIC-28	Flash	40	24k	1408	21	7.75	7.10
312338CM	PIC18F2539-I/SP	DIP-28	Flash	40	24k	1408	21	7.69	7.40
248022CM	PIC18F258-I/SO	SOIC-28	Flash	40	16k	1536	23	9.65	8.62
248014CM	PIC18F258-I/SP	DIP-28	Flash	40	16k	1536	23	9.65	8.62
312400CM	PIC18F4220-I/P	DIP-40	Flash	40	4k	512	36	7.15	7.05
312426CM	PIC18F4320-I/P	DIP-40	Flash	40	8k	512	36	7.95	7.70
312434CM	PIC18F4331-I/P	DIP-40	Flash	40	8k	768	36	8.55	7.86
248081CM	PIC18F442-I/L	PLCC-44	Flash	40	8k	768	34	8.99	8.63
248073CM	PIC18F442-I/P	DIP-40	Flash	40	8k	768	34	7.75	7.35
312451CM	PIC18F4431-I/P	DIP-40	Flash	40	16k	768	36	8.85	8.60
312442CM	PIC18F4439-I/P	DIP-40	Flash	40	12k	640	32	7.89	7.55
312477CM	PIC18F448-I/L	PLCC-44	Flash	40	16k	768	33	9.65	9.47
312469CM	PIC18F448-I/P	DIP-40	Flash	40	16k	768	33	8.69	8.34
248049CM	PIC18F452-I/L	PLCC-44	Flash	40	16k	1536	34	10.29	9.26
248031CM	PIC18F452-I/P	DIP-40	Flash	40	16k	1536	34	8.85	7.59
312485CM	PIC18F4539-I/P	DIP-40	Flash	40	24k	1408	32	8.55	8.30
248065CM	PIC18F458-I/L	PLCC-44	Flash	40	16k	1536	34	10.55	10.05
248057CM	PIC18F458-I/P	DIP-40	Flash	40	16k	1536	34	9.25	7.05
145040CM	PIC12C508A-04/P	DIP-8	OTP	4	512	25	5	1.49	.99
144258CM	PIC12C509A-04/P	DIP-8	OTP	4	1k	41	5	1.49	1.09
193455CM	PIC12C671-04/P	DIP-8	OTP	4	1k	128	6	2.39	2.17
193463CM	PIC12C672-04/P	DIP-8	OTP	4	2k	128	6	2.79	2.44
200475CM	PIC12518-04/P	DIP-8	OTP	4	512	25	6	1.69	1.55
200483CM	PIC12519-04/P	DIP-8	OTP	4	1k	41	6	1.75	1.59
247370CM	PIC14000-4/SO	SOIC-28	OTP	4	4k	192	22	11.65	11.64
247361CM	PIC14000-4/SP	DIP-28	OTP	4	4k	192	22	11.99	11.45
128338CM	PIC16C54A-04/P	DIP-18	OTP	4	512	25	12	2.25	2.02
247388CM	PIC16C554-4/P	DIP-18	OTP	4	512	80	13	3.75	3.73
247396CM	PIC16C554-4/SO	SOIC-18	OTP	4	512	80	13	3.85	3.80
200416CM	PIC16C55A-04/P	DIP-28	OTP	4	512	24	20	2.39	2.25
193341CM	PIC16C57C-04/P	DIP-28	OTP	4	2k	72	20	2.79	1.93
193383CM	PIC16C622A-04/P	DIP-18	OTP	4	2k	128	13	2.65	2.40
200424CM	PIC16C66-04/SP	DIP-18	OTP	4	8k	368	22	5.19	4.74
193359CM	PIC16C711-04/P	DIP-18	OTP	4	1k	68	13	3.25	2.43
200432CM	PIC16C72A-04/SP	DIP-28	OTP	4	2k	128	22	4.59	4.39
200441CM	PIC16C73A-04/SP	DIP-28	OTP	4	4k	192	22	8.25	7.79
247847CM	PIC16C923-04I/L	PLCC-68	OTP	4	4k	176	52	6.75	6.41
248137CM	PIC12673-10/P	DIP-8	OTP	10	1k	128	5	3.39	3.25
248145CM	PIC12674-10/P	DIP-8	OTP	10	2k	128	5	3.15	3.05
247880CM	PIC17C42A-16/L	PLCC-44	OTP	16	2k	232	33	10.39	10.10
247871CM	PIC17C42A-16/P	DIP-40	OTP	16	2k	232	33	9.39	8.75
200459CM	PIC16C505-04/P	DIP-14	OTP	20	1k	72	12	1.09	.99
247337CM	PIC16C505-20I/SL	SOIC-14	OTP	20	1k	72	11	1.99	1.78

Blue Part No. = Limited Quantity Available

## Time'n and Count'n

### Intermediate Level PIC Applications

**Square 1 Electronics** This book previously appeared in PIC'n Techniques book. The more current PIC16F870 is substituted for the PIC16C63. Topics such as test equipment for timing & counting experiments to using timer 1 & 2, and capture/compare/PWM as well as programs are included in this book. (218 pages, 2002)

Part No.	Description	Size	Wt. (lbs.)	Price
210489CM	Time'n and Count'n	8.5" x 11.0"	1.4	\$34.95

RoHS Compliant Product  
RoHS Also AvailableDetails on  
Page 1Color Code Legend  
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## MICROCHIP PIC Microcontrollers

SSOP

PLCC

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247214CM	PIC16C54C-20I/P	DIP-18	OTP	20	512	25	12	\$2.35	\$2.08
247222CM	PIC16C54C-20I/SP	SOIC-18	OTP	20	512	25	12	2.35	2.15
247231CM	PIC16C54C-20I/SS	SSOP-20	OTP	20	512	25	12	2.45	2.30
247409CM	PIC16C558-20I/P	DIP-18	OTP	20	2k	128	13	4.99	4.84
247417CM	PIC16C558-20I/SP	SOIC-18	OTP	20	2k	128	13	4.95	4.92
247257CM	PIC16C55A-20I/SP	SOIC-28	OTP	20	512	24	20	3.05	2.75
247249CM	PIC16C55A-20I/P	DIP-28	OTP	20	512	24	20	2.95	2.92
247273CM	PIC16C56A-20I/SP	SOIC-18	OTP	20	1k	25	12	2.55	2.39
247265CM	PIC16C56A-20I/P	DIP-18	OTP	20	1k	25	12	2.85	2.55
134172CM	PIC16C56-RC/P	DIP-18	OTP	20	1k	25	12	\$4.05	3.35 3.01
247290CM	PIC16C57C-20I/SP	SOIC-28	OTP	20	2k	72	20	3.55	3.25
247311CM	PIC16C58B-20I/SP	SOIC-18	OTP	20	2k	73	12	2.65	2.53
247505CM	PIC16C620A-20I/P	DIP-18	OTP	20	512	96	13	2.25	2.05
247513CM	PIC16C620A-20I/SP	SOIC-18	OTP	20	512	96	13	2.15	2.06
247521CM	PIC16C621A-20I/P	DIP-18	OTP	20	1k	96	13	2.55	2.49
247530CM	PIC16C621A-20I/SP	SOIC-18	OTP	20	1k	96	13	2.59	2.54
247548CM	PIC16C622A-20I/P	DIP-18	OTP	20	2k	128	13	3.29	3.15
247556CM	PIC16C622A-20I/SP	SOIC-18	OTP	20	2k	128	13	3.05	2.86
247433CM	PIC16C62B-20I/SP	SOIC-28	OTP	20	2k	128	22	4.25	3.94
193324CM	PIC16C63A-20I/SP	DIP-28	OTP	20	4k	192	22	4.79	4.35
247450CM	PIC16C65B-20I/L	PLCC-44	OTP	20	4k	192	33	7.85	7.83
247441CM	PIC16C65B-20I/P	DIP-40	OTP	20	4k	192	33	6.15	5.96
247476CM	PIC16C66-20I/SP	SOIC-28	OTP	20	8k	368	22	8.25	7.75
247468CM	PIC16C66-20I/SP	DIP-28	OTP	20	8k	368	22	8.25	7.75
247492CM	PIC16C67-20I/L	PLCC-44	OTP	20	8k	368	33	9.15	8.95
247484CM	PIC16C67-20I/P	DIP-40	OTP	20	8k	368	33	8.25	7.75
247581CM	PIC16C710-20I/P	DIP-18	OTP	20	512	36	13	3.75	3.05
247599CM	PIC16C711-20I/P	DIP-18	OTP	20	1k	68	13	4.05	3.60
247601CM	PIC16C711-20I/SP	SOIC-18	OTP	20	1k	68	13	4.45	3.68
247610CM	PIC16C712-20I/P	DIP-18	OTP	20	1k	128	13	3.05	2.85
247628CM	PIC16C712-20I/SP	SOIC-18	OTP	20	1k	128	13	3.15	2.95
247636CM	PIC16C715-20I/P	DIP-18	OTP	20	2k	68	13	4.25	3.68
247644CM	PIC16C715-20I/SP	SOIC-18	OTP	20	2k	68	13	4.35	4.05
247652CM	PIC16C716-20I/P	DIP-18	OTP	20	2k	128	13	3.85	3.25
247661CM	PIC16C716-20I/SP	SOIC-18	OTP	20	2k	128	13	3.95	3.35
247679CM	PIC16C717-I/P	DIP-20	OTP	20	2k	256	16	3.75	3.20
247687CM	PIC16C717-SO	SOIC-20	OTP	20	2k	256	16	3.25	2.95
247695CM	PIC16C72A-20I/P	DIP-28	OTP	20	2k	128	22	5.35	5.16
247708CM	PIC16C72A-20I/SP	SOIC-28	OTP	20	2k	128	22	5.65	5.16
247716CM	PIC16C770-I/P	DIP-20	OTP	20	2k	256	16	4.15	3.15
247724CM	PIC16C770-SO	SOIC-20	OTP	20	2k	256	16	3.25	2.86
247732CM	PIC16C771-I/P	DIP-20	OTP	20	2k	256	16	3.95	3.45
247741CM	PIC16C771-I/SP	SOIC-20	OTP	20	2k	256	16	3.95	3.48
247767CM	PIC16C773-I/SP	SOIC-28	OTP	20	4k	256	22	7.05	6.25
247759CM	PIC16C773-I/SP	DIP-28	OTP	20	4k	256	22	7.05	6.25
247783CM	PIC16C774-I/L	PLCC-44	OTP	20	4k	256	33	9.75	9.69
247775CM	PIC16C774-I/P	DIP-40	OTP	20	4k	256	33	7.95	7.57
247345CM	PIC16HV540-20I/P	DIP-18	OTP	20	512	25	12	2.35	2.05
247353CM	PIC16HV540-20I/SP	SSOP-20	OTP	20	512	25	12	2.35	2.22

Blue Part No. = Limited Quantity Available

## MICROCHIP PIC Microcontrollers

SSOP

PLCC

Part No.	Product No.	Pkg.	Memory	Speed (MHz)	ROM Words	RAM Bytes	I/O Pins	1	25
247804CM	PIC16C745-I/SP	SOIC-28	OTP	24	8k	256	22	\$4.55	\$3.95
247791CM	PIC16C745-I/SP	DIP-28	OTP	24	8k	256	22	5.15	3.95
247821CM	PIC16C765-I/L	PLCC-44	OTP	24	8k	256	33	6.39	6.05
247812CM	PIC16C765-I/P	DIP-40	OTP	24	8k	256	33	4.95	4.75
247901CM	PIC17C43-25/L	PLCC-44	OTP	25	4k	454	33	13.85	13.10
247898CM	PIC17C43-25/P	DIP-40	OTP	25	4k	454	33	11.05	10.50
247927CM	PIC17C44-33/L	PLCC-44	OTP	33	8k	454	33	15.39	14.74
247919CM	PIC17C44-33/P	DIP-40	OTP	33	8k	454	33	14.75	13.10
247935CM	PIC17C752-33/L	PLCC-68	OTP	33	8k	678	50	13.95	13.57
247943CM	PIC17C756A-33/L	PLCC-68	OTP	33	16k	902	50	16.05	15.65
247951CM	PIC17C762-16/L	PLCC-84	OTP	33	8k	678	66	16.85	16.80
247960CM	PIC17C766-33/L	PLCC-84	OTP	33	16k	902	66	19.25	18.73
200491CM	PIC18C242-I/SP	DIP-28	OTP	40	16k	512	23	\$6.65	6.29 5.74
200504CM	PIC18C252-I/SP	DIP-28	OTP	40	32k	1536	23	\$7.25	6.29 5.99

## ATMEL Microcontrollers

DIP

SOIC

PLCC

Part No.	Product No.	Pkg.	Description	1	25
248330CM	ATMEGA8-16PI	DIP-28	8-bit MCU, 8kB flash, 16MHz, 23 I/O	\$5.05	\$4.05
323133CM	ATMEGA16-16PI	DIP-40	8-bit MCU, 16kB flash, 16MHz, 32 I/O, I-temp	6.25	3.91
248153CM	ATTINY11-6PC	DIP-8	8-bit MCU, 1kB flash, 6MHz, 6 I/O, I-temp	1.48	1.32
248161CM	ATTINY11-6SI	SOIC-8	8-bit MCU, 1kB flash, 6MHz, 6 I/O, I-temp	1.55	1.45
248170CM	ATTINY12-8PC	DIP-8	8-bit MCU, 1kB flash, 8MHz, 6 I/O	1.55	1.25
248188CM	ATTINY12-8SI	SOIC-8	8-bit MCU, 1kB flash, 8MHz, 6 I/O, I-temp	1.55	1.38
248196CM	ATTINY15L-1PC	DIP-8	8-bit MCU, 1kB flash, 16MHz, 6 I/O	1.85	1.18
248209CM	ATTINY15L-1SI	SOIC-8	8-bit MCU, 1kB flash, 16MHz, 6 I/O, I-temp	2.65	2.53
248217CM	ATTINY26-16PC	DIP-20	8-bit MCU, 2kB flash, 16MHz, 16 I/O	2.05	1.23
248225CM	ATTINY26-16SI	SOIC-20	8-bit MCU, 2kB flash, 16MHz, 16 I/O, I-temp	2.35	2.09
248233CM	ATTINY28L-4PC	DIP-28	8-bit MCU, 2kB flash, 4MHz, 11 I/O	2.15	2.05
248348CM	ATMEGA8515-16JI	PLCC-44	8-bit MCU, 8kB flash, 16MHz, 35 I/O, I-temp	5.19	5.05
323141CM	ATMEGA8515-16PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.59	3.40
395621CM	ATMEGA8515L-8PC	DIP-40	8-bit MCU, 8kB flash, 16MHz, 35 I/O	4.49	3.05
168874CM	AT89C2051-24PC	DIP-20	8-bit MCU, 2kB flash, 24MHz, 15 I/O	2.25	1.68
265332CM	AT89C2051-12PC	DIP-20	8-bit MCU, 2kB flash, 12MHz, 15 I/O	2.99	2.60
204089CM	AT89C4051-24PC	DIP-20	8-bit MCU, 4kB flash, 24MHz, 15 I/O	1.79	1.48
323109CM	AT89C4051-24SC	SOIC-20	8-bit MCU, 4kB flash, 24MHz, 15 I/O	1.75	1.25
168911CM	AT89C51-24JC	PLCC-44	8-bit MCU, 4kB flash, 24MHz, 32 I/O	3.79	3.39
168903CM	AT89C51-24PC	DIP-40	8-bit MCU, 4kB flash, 24MHz, 32 I/O	4.95	4.35
168920CM	AT89C52-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	3.45	2.85
355830CM	AT89S51-24PC	DIP-40	8-bit MCU, 4kB flash, 33MHz, 32 I/O	1.75	1.29
220871CM	AT89S52-24JI	PLCC-44	8-bit MCU, 8kB flash, 33MHz, 32 I/O, I-temp	1.85	1.49
662637CM	AT89S52-24PC	DIP-40	8-bit MCU, 8kB programmable flash	1.79	1.35
323117CM	AT89S53-24AI	TQFP-44	8-bit MCU, 12kB flash, 24MHz, 32 I/O, I-temp	4.69	3.86
168946CM	AT89C55WD-24PC	DIP-40	8-bit MCU, 20kB flash, 24MHz, 32 I/O	6.59	4.94
204097CM	AT89S8252-24PC	DIP-40	8-bit MCU, 8kB flash, 24MHz, 32 I/O	5.95	5.35
204100CM	AT90S1200-12PC	DIP-20	8-bit MCU, 1kB flash, 12MHz, 15 I/O	2.15	1.61
248250CM	AT90S2313-10PC	DIP-20	8-bit MCU, 2kB flash, 10MHz, 15 I/O	3.55	2.95
248268CM	AT90S2313-10SI	SOIC-20	8-bit MCU, 2kB flash, 10MHz, 15 I/O, I-temp	2.65	2.39
248276CM	AT90S2323-10SI	SOIC-8	8-bit MCU, 2kB flash, 10MHz, 4 I/O	3.25	2.87
248292CM	AT90S2343-10SI	SOIC-8	8-bit MCU, 2kB flash, 10MHz, 5 I/O, I-temp	3.15	2.87

## Serial Communications

## Serial Communications PIC Applications

**Square 1 Electronics** Topics such as asynchronous serial communications, RS242 standard, ASCII character code, bit-bang asynchronous communications and synchronous serial communications to name a few are covered in this book as well as tool box modules and applications. (566 pages, 2002)

• Size: 8.6" x 11.0" • Weight: 3.5 lbs.

Part No.	Description	Price
210497CM	Serial Communications	\$49.95

## Microcontrol'n Apps

## PIC Microcontroller Applications (Version 2)

**Square 1 Electronics** This book is a revision of and the successor to PIC'n Up The Pace. Materials covered in the book include talking to a PIC microcontroller with a PC running a terminal, simple data logger and digital voltmeter experiment, PIC16F87x and 10-bit A/D conversion. (437 pgs, 2002)

• Size: 8.5" x 11.0" • Weight: 1.7 lbs.

Part No.	Description	Price
215052CM	Microcontrol'n Apps	\$44.95

## PIC Microcontroller Project Book

## Comprehensive Beginner's Guide

**McGraw-Hill** Hands-on directions for putting Microchip's RISC-based chips with up to 8k of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. Provides you guidance on getting the equipment you need and programming your chip. (203 pages, 2000)

• Size: 7.3" x 9.2" • Weight: 1.0 lbs.

Part No.	Description	Price
174650CM	PIC Beginner's Guide	\$29.95

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



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Texas Instruments				Microcontrollers			SSOP		
Part No.	Product No.	Pkg.	Description	1	10	100			
248663CM	MSP430F1121AIPW	SSOP-20	16-bit MCU, flash, 8MHz 4k ROM, 14 I/O	\$3.35	\$3.15	\$3.00			

Microchip

16-Bit Digital Signal Controllers

dsPIC

The dsPIC® Digital Signal Controller (DSC) from Microchip is a powerful 16-bit (data) modified Harvard RISC machine that combines the control advantages of a high-performance 16-bit microcontroller (MCU) with the high computation speed of a fully implemented digital signal processor (DSP) to produce a tightly coupled single-chip single-instruction stream solution for embedded systems design. All integrate Flash program memory and most have EEPROM data storage.

- Memory: flash
- Speed: 40MHz

Part No.	Product No.	Pkg.	MIPS	Program Mem. Bytes	SRAM Bytes	1	10	100
321787CM	DSPIC30F2010-20I/SOG	SOIC-28	20	12k	512	\$8.75	\$7.90	
321779CM	DSPIC30F2010-20I/SPG	DIP-28	20	12k	512	8.75	7.90	
321808CM	DSPIC30F2010-30I/SOG	SOIC-28	30	12k	512	10.09	9.09	
321795CM	DSPIC30F2010-30I/SPG	DIP-28	30	12k	512	10.09	9.09	
321816CM	DSPIC30F6010-20I/PF	TQFP-80	20	144k	8192	26.35	23.70	
321824CM	DSPIC30F6010-30I/PF	TQFP-80	30	144k	8192	28.99	26.15	
321832CM	DSPIC30F6011-20I/PF	TQFP-64	20	132k	6144	22.49	19.60	
321841CM	DSPIC30F6011-30I/PF	TQFP-64	30	132k	6144	25.85	21.65	
321859CM	DSPIC30F6012-20I/PF	TQFP-64	20	144k	8192	25.05	23.35	
321867CM	DSPIC30F6012-30I/PF	TQFP-64	30	144k	8192	27.95	24.15	
323053CM	DSPIC30F6013-20I/PF	TQFP-80	20	132k	6144	23.49	20.85	
323061CM	DSPIC30F6013-30I/PF	TQFP-80	30	132k	6144	27.45	24.00	
323070CM	DSPIC30F6014-20I/PF	TQFP-80	20	144k	8192	25.29	23.10	
323088CM	DSPIC30F6014-30I/PF	TQFP-80	30	144k	8192	29.29	25.49	

PIC BASIC Programming and Projects

**Newnes Publications** The BASIC language, is introduced from square one, with simple code used to illustrate each of the most commonly used instructions. PIC BASIC is the simplest and quickest way to get up and running – designing and building circuits using a microcontroller. (210 pages, 2001)

Part No.	Description	Size	Wt. (lbs.)	1	10
200168CM	PIC BASIC Programming	6.1" x 9.2"	0.8	\$38.95	\$37.00

Flash MCUs				DIP			PLCC		
Part No.	Cross Ref.	Pkg.	Description	1	10	100			
280268CM	Z8F1601PM020SC	DIP-40	16kB ROM, 2kB RAM, 31 I/O, A/D	\$9.85	\$9.75	\$9.65			
280276CM	Z8F1601VN020SC	PLCC-44	16kB ROM, 2kB RAM, 31 I/O, A/D	9.95	9.80	9.65			
280284CM	Z8F1602VS020SC	PLCC-68	16kB ROM, 2kB RAM, 46 I/O, A/D	9.15	8.85	8.65			
280292CM	Z8F2401PM020SC	DIP-40	24kB ROM, 2kB RAM, 31 I/O, A/D	11.45	11.15	10.85			
280305CM	Z8F2401VN020SC	PLCC-44	24kB ROM, 2kB RAM, 31 I/O, A/D	11.45	11.15	10.85			
280313CM	Z8F2402VS020SC	PLCC-68	24kB ROM, 2kB RAM, 46 I/O, A/D	10.25	10.05	9.85			
280321CM	Z8F3201PM020SC	DIP-40	32kB ROM, 2kB RAM, 31 I/O, A/D	11.35	10.55	10.05			
280330CM	Z8F3201VN020SC	PLCC-44	32kB ROM, 2kB RAM, 31 I/O, A/D	11.35	10.55	10.05			
280348CM	Z8F3202VS020SC	PLCC-68	32kB ROM, 2kB RAM, 46 I/O, A/D	11.65	10.95	10.45			
280356CM	Z8F4801PM020SC	DIP-40	48kB ROM, 4kB RAM, 31 I/O, A/D	12.55	11.85	11.35			
280364CM	Z8F4801VN020SC	PLCC-44	48kB ROM, 4kB RAM, 31 I/O, A/D	12.65	11.85	11.35			
280372CM	Z8F4802VS020SC	PLCC-68	48kB ROM, 4kB RAM, 46 I/O, A/D	13.15	12.35	11.75			
280381CM	Z8F6401PM020SC	DIP-40	64kB ROM, 4kB RAM, 46 I/O, A/D	14.25	13.25	12.55			
280399CM	Z8F6401VN020SC	PLCC-44	64kB ROM, 4kB RAM, 46 I/O, A/D	14.25	13.25	12.55			
280401CM	Z8F6402VS020SC	PLCC-68	64kB ROM, 4kB RAM, 46 I/O, A/D	14.65	13.65	12.95			

Z8 OTP MCUs				DIP	PLCC	SOIC	
Part No.	Cross Ref.	Pkg.	Description	1	10	100	
281228CM	Z86E3016PSC	DIP-28	OTP MCU, 24 I/O, 4KB ROM	\$4.95	\$4.55	\$4.15	
281236CM	Z86E3016VSC	PLCC-28	OTP MCU, 24 I/O, 4KB ROM	4.35	4.25	4.15	
281252CM	Z86E0812SSC1866	SOIC-18	OTP MCU, 14 I/O, 4KB ROM	2.45	2.35	2.25	
281279CM	Z86E0812PSC1866	DIP-18	OTP MCU, 14 I/O, 4KB ROM	2.75	2.48	2.25	
281287CM	Z86E0812PEC	DIP-18	OTP MCU, 14 I/O, 2KB ROM	\$2.95	2.65	2.55	2.45
281295CM	Z86E0208SSC1925	SOIC-18	OTP MCU, 14 I/O, 512KB ROM	1.75	1.59	1.45	

Z

Z80 MPUs

DIP

PLCC

Part No.	Cross Ref.	Pkg.	Description	1	10	100
35561CM	Z80	DIP-40	2.5MHz CPU (MK3880N/780C)	\$1.39	\$1.19	\$1.09
35596CM	Z80A	DIP-40	4MHz CPU (MK3880N-4/780C-1)	1.99	1.79	1.59
35609CM	Z80A-CTC	DIP-28	4MHz counter timer circuit (MK3882-4)	1.99	1.79	1.59
35625CM	Z80A-DART	DIP-40	4MHz dual asynchronous receiver/trans	3.49	3.19	2.89
35641CM	Z80A-PIO	DIP-40	4MHz parallel I/O interf. contr. (MK3881-4)	1.99	1.79	1.61
35668CM	Z80A-SIO/O	DIP-40	4MHz serial I/O (TxGB & RxGB bond.) MK3884-4	2.19	1.79	1.59
35705CM	Z80B	DIP-40	6MHz CPU (MK3880N-6)	2.59	2.39	2.09
280410CM	Z8018006PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	7.65	6.92	6.29
280428CM	Z8018006VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	7.65	6.92	6.29
280436CM	Z8018008PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	7.65	6.92	6.29
280444CM	Z8018008VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	7.55	6.87	6.25
280452CM	Z8018010PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	8.75	7.98	7.25
280461CM	Z8018010VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	8.89	8.08	7.35
280479CM	Z8S18020PSC	DIP-64	Z180 MPU, MMU, DMA, UART, INTC	12.99	11.82	10.75
280487CM	Z8S18020VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	8.75	8.85	8.05
280495CM	Z8S18033VSC	PLCC-68	Z180 MPU, MMU, DMA, UART, INTC	8.79	7.90	6.90
35781CM	Z84C00-4	DIP-40	4MHz CPU (Z84C0004PEC) CMOS	4.15	3.49	2.55
280508CM	Z84C0006VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.09	2.77	2.48
280516CM	Z84C0008PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.05	2.77	2.07
280524CM	Z84C0008VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.05	2.77	2.08
280532CM	Z84C0010PEC	DIP-40	Z80 CPU with 3 mode int., 16 regs.	3.05	2.59	1.99
280541CM	Z84C0010VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	3.45	3.20	3.15
280559CM	Z84C0020VEC	PLCC-44	Z80 CPU with 3 mode int., 16 regs.	10.95	10.55	10.20
280567CM	Z84C4008PEC	DIP-40	Dual data ch. communication interface	6.59	6.07	5.20
280575CM	Z84C9010VSC	PLCC-84	Serial/parallel I/O counter/timer	13.25	12.85	12.65
35799CM	Z8530	DIP-40	2MHz serial communications controller	2.49	2.12	1.59
281308CM	Z85C3016PSC	DIP-40	Serial communications controller	9.95	8.65	8.37
61786CM	Z85C3008PSC	DIP-40	Serial communications controller	4.99	4.57	3.92
281316CM	Z85C3008VSC	PLCC-44	Serial communications controller	7.65	5.67	5.25
281324CM	Z8523016VSC	PLCC-44	Enhanced serial comm. controller	15.75	14.45	13.96

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Dallas Semiconductor 87C/89C MCU Series				DIP			PLCC		
Part No.	Cross Ref.	Pkg.	Description	1	10	100			
345341CM	DS87C530-QNL	PLCC-52	EPROM/ROM MCU w/ real-time clock	\$49.09	\$37.59				
345359CM	DS87C520-WCL	DIP-40	EPROM/ROM MCU, high-speed	60.95	49.95				
345367CM	DS87C520-MCL	DIP-44	EPROM/ROM MCU, high-speed	27.99	26.55				

6500 Series				DIP		
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43191CM	6502	DIP-40	CPU, 8-bit, 1MHz	\$6.75	\$5.90	\$5.30
43166CM	65C02	DIP-40	CPU, 8-bit, 1MHz	5.95	4.45	3.10
43254CM	6522	DIP-40	Versatile interface adapter, 1MHz	4.05	3.25	2.95
43297CM	6532	DIP-40	RAM I/O timer, 1MHz	7.95	6.99	6.49
43318CM	6551	DIP-28	Asynch. comm. interface adapter, 1MHz	3.95	3.36	2.52

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6800/68000 Series				DIP		
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43481CM	6800	DIP-40	CPU, 8-bit, 5V, 2MHz	\$6.95	\$5.25	\$3.65
43502CM	6802	DIP-40	CPU, 8-bit, 5V, 1MHz	8.49	7.65	6.89
43529CM	6803	DIP-40	CPU, 8-bit, 5V, 1MHz	7.79	6.99	6.29
43537CM	MC6808	DIP-40	CPU, 8-bit, 7V, 1MHz	8.95	8.06	7.25
43545CM	6809	DIP-40	CPU, 8-bit, 7V, 1MHz	3.95	3.59	3.25
320590CM	68B09E	DIP-40	CPU, 8-bit, 7V, 2MHz	3.95	3.59	3.25
43561CM	6810	DIP-24	SRAM, 1K-bit, 5V, 1MHz	2.95	2.65	2.39
43596CM	6821	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	3.95	3.59	3.25
43414CM	68B21	DIP-40	Peripheral inter. adptr, 8-bit, 7V, 1MHz	4.95	4.49	4.05
43617CM	6840	DIP-28	Programmable timer, 16-bit, 5V, 6MHz	2.49	2.25	1.99
43633CM	6850	DIP-24	Asynch. comm. int. adptr, 8-bit, 7V, 1MHz	2.39	2.09	1.89
25304CM	MC68000L8	DIP-64	CPU, 16-bit, 7V, 8MHz	8.95	7.95	7.25
25291CM	MC68000L10	DIP-64	CPU, 16-bit, 7V, 10MHz	13.45	11.49	8.59

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☛ RoHS compliant product ☛ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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## 6800/68000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
25355CM	MC68701	DIP-40	MCU, 8-bit, 29 I/O, 2MHz	\$15.95	\$13.95	\$12.55
25363CM	MC68705P3S	DIP-28	MCU, 8-bit, 20 I/O, 4MHz	24.95	22.95	20.65
25371CM	MC68705U3S+	DIP-40	MCU, 8-bit, 20 I/O, 4MHz	26.95	22.94	20.65
248591CM	MC68HC11E0CN2	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	9.55	8.60	7.20
248604CM	MC68HC11E1CFN3	PLCC-52	MCU, 8-bit, 38 I/O, 3MHz	8.85	7.25	6.55
248583CM	MC68HC11F1CFN3	PLCC-68	MCU, 8-bit, 30 I/O, 3MHz	9.49	7.20	6.75
248647CM	MC68HC705C8ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 4MHz	7.19	5.30	5.00
108919CM	MC68HC705C8P	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	7.29	6.29	5.92
132484CM	MC68HC705C8S	DIP-40	MCU, 8-bit, 24 I/O, 4MHz	38.95	34.95	26.21
248639CM	MC68HC705J1ACDW	SOIC-20	MCU, 8-bit, 14 I/O, 4MHz	1.95	1.85	1.68
132530CM	MC68HC705J1ACP	DIP-20	MCU, 8-bit, 14 I/O, 4MHz	2.09	1.89	1.79
108927CM	MC68HC705K1P	DIP-16	MCU, 8-bit, 10 I/O, 2MHz	5.49	4.94	4.44
248612CM	MC68HC705P6ACP	DIP-28	MCU, 8-bit, 21 I/O, 2MHz	\$2.45	2.95	2.25
248621CM	MC68HC705P6ADW	SOIC-28	MCU, 8-bit, 21 I/O, 2MHz	2.95	2.25	2.10
248655CM	MC68HC705C9ACFN	PLCC-44	MCU, 8-bit, 31 I/O, 2MHz	10.25	9.95	9.50
248567CM	MC68HC711D3CFN2	PLCC-44	MCU, 8-bit, 26 I/O, 2MHz	9.45	9.15	8.70
285675CM	MC68HC705BDT	DIP-40	MCU, 8-bit, 26 I/O, 2MHz	4.99	4.49	3.99
248575CM	MC68HC711E9CFN2	PLCC-52	MCU, 8-bit, 38 I/O, 2MHz	13.45	10.50	9.87
248356CM	MC68HC908GP32CP	DIP-40	MCU, 8-bit, 33 I/O, 8MHz	9.99	9.65	9.25
323213CM	MC68HC908GR8CP	DIP-28	MCU, 8-bit, 21 I/O, 8MHz	6.25	5.28	5.01
248410CM	MC68HC908JB8ADW	SOIC-28	MCU, 8-bit, 21 I/O, 3MHz	4.95	4.70	4.50
248401CM	MC68HC908JB8JP	DIP-20	MCU, 8-bit, 37 I/O, 3MHz	4.75	4.55	4.35
323205CM	MC68HC908JK1CDW	SOIC-20	MCU, 8-bit, 15 I/O, 8MHz	2.35	2.01	1.91
323192CM	MC68HC908JK1CP	DIP-20	MCU, 8-bit, 15 I/O, 8MHz	2.79	2.01	1.91
248372CM	MC68HC908JK3CDW	SOIC-20	MCU, 8-bit, 15 I/O, 8MHz	3.35	3.15	3.09
248364CM	MC68HC908JK3CP	DIP-20	MCU, 8-bit, 15 I/O, 8MHz	3.35	3.15	3.09
248399CM	MC68HC908JL3CDW	SOIC-28	MCU, 8-bit, 23 I/O, 8MHz	\$4.95	4.15	3.85
248381CM	MC68HC908JL3CP	DIP-28	MCU, 8-bit, 23 I/O, 8MHz	4.35	4.15	3.95
248436CM	MC68HC908KX8CDW	SOIC-16	MCU, 8-bit, 13 I/O, 8MHz	\$5.95	5.65	5.40
248428CM	MC68HC908KX8CP	DIP-16	MCU, 8-bit, 13 I/O, 8MHz	5.35	4.85	4.65
248495CM	MC68HC908Q1CDW	SOIC-8	MCU, 8-bit, 6 I/O, 8MHz	1.49	1.40	1.30
248487CM	MC68HC908Q11CP	DIP-8	MCU, 8-bit, 6 I/O, 8MHz	1.39	1.31	1.28
248479CM	MC68HC908Q2CDW	SOIC-8	MCU, 8-bit, 6 I/O, 8MHz	2.05	1.85	1.68
248461CM	MC68HC908Q2CP	DIP-8	MCU, 8-bit, 6 I/O, 8MHz	\$1.85	1.69	1.60
248452CM	MC68HC908Q4CDW	SOIC-8	MCU, 8-bit, 6 I/O, 8MHz	2.05	1.95	1.85
248444CM	MC68HC908Q4CP	DIP-8	MCU, 8-bit, 6 I/O, 8MHz	1.85	1.70	1.65
248559CM	MC68HC908QY1CDT	TSSOP-16	MCU, 8-bit, 14 I/O, 8MHz	\$2.95	1.85	1.75
248532CM	MC68HC908QY2CDT	TSSOP-16	MCU, 8-bit, 13 I/O, 8MHz	1.85	1.75	1.65
248524CM	MC68HC908QY2CP	DIP-16	MCU, 8-bit, 13 I/O, 8MHz	\$2.15	1.95	1.85
248516CM	MC68HC908QY4CDW	TSSOP-16	MCU, 8-bit, 13 I/O, 8MHz	2.65	2.49	2.44
248508CM	MC68HC908QY4CP	DIP-16	MCU, 8-bit, 13 I/O, 8MHz	2.35	2.15	2.05
323221CM	MC68HC912B32CFU8	QFP-80	MCU, 8-bit, 15 I/O, 2MHz	20.55	19.50	18.52

✦ Refurbished = Backed by Jameco

## 8000 Series



Part No.	Cross Ref.	Pkg.	Description	1	10	100
51844CM	8031	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$3.45	\$3.15	\$2.80
51676CM	80C31	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	2.99	2.42	1.45
102197CM	8032	DIP-40	CPU, 8-bit, 32 I/O, 12MHz	3.95	3.59	3.25
108804CM	80C32-1	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	4.49	3.85	2.89
51861CM	8035	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	3.95	3.59	3.25
51959CM	8039	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	4.49	3.82	2.86
51692CM	80C39	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	3.59	3.23	2.91
51983CM	8049*	DIP-40	CPU, 8-bit, 27 I/O, 6MHz	1.95	1.75	1.59
51991CM	8051A**	DIP-40	MCU, 8-bit, 27 I/O, 11MHz	5.49	4.99	4.49
52003CM	8052AH**	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	7.99	7.19	6.49
125647CM	80C52BASIC	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	32.75	29.47	26.51
52046CM	8080A	DIP-40	CPU, 8-bit, 32 I/O, 1MHz	4.65	4.05	3.75
52062CM	8085AH	DIP-40	CPU, 8-bit, 16 I/O, 3MHz	4.99	4.49	3.99
52071CM	8085AH-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	5.49	4.99	4.49

✦ Pull = Extra Savings

\* 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM to convert 8049 to 8039

\*\* Tie pin 31 low to bypass the internal ROM

## 8000 Series (Continued)



Part No.	Cross Ref.	Pkg.	Description	1	10	100
51705CM	80C85A-2	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	\$7.25	\$6.55	\$5.85
52100CM	8086-2	DIP-40	CPU, 8-bit, 32 I/O, 8MHz	1.95	1.75	1.59
52142CM	8088	DIP-40	CPU, 8-bit, 16 I/O, 5MHz	2.49	2.25	1.99
52169CM	8088-2	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	5.95	5.39	4.85
34358CM	UPD70108-8	DIP-40	CPU, 8-bit, 16 I/O, 8MHz	10.99	9.34	7.01
52290CM	8155	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.82	2.86
52302CM	8155-2	DIP-40	Static MOS RAM, 2K-bit, 3 I/O, 5MHz	5.95	5.39	4.85
52193CM	81C55	DIP-40	I/O port timer, 2K-bit, 3MHz	4.49	3.59	3.19
52468CM	8212	DIP-24	I/O port timer, 8-bit, 3MHz	6.49	5.99	5.49
52484CM	8216	DIP-16	Bi-directional bus driver	3.95	3.36	2.52
52492CM	8224	DIP-16	Clock generator/driver	2.95	2.49	2.25
52513CM	8228	DIP-28	System contr./bus driver	3.69	3.19	2.36
52581CM	8243	DIP-24	I/O expander	5.49	4.94	3.71
52610CM	8250A	DIP-40	UART	4.25	3.60	2.70
52644CM	8251	DIP-28	USART	2.99	2.69	2.39
52652CM	8251A	DIP-28	USART	3.99	3.69	3.39
52370CM	82C51A	DIP-28	USART	3.85	3.40	2.95
52679CM	8253	DIP-24	Prog. interval timer, 2MHz	3.19	2.89	2.59
52687CM	8253-5	DIP-24	Prog. interval timer, 2MHz	4.99	4.49	3.99
52388CM	82C53-5	DIP-24	Prog. interval timer, 8MHz	4.25	3.60	2.75
52708CM	8254	DIP-24	Prog. interval timer, 8MHz	4.49	3.99	3.59
52716CM	8254-2	DIP-24	Prog. interval timer, 8MHz	7.35	6.25	4.69
52396CM	82C54	DIP-24	Prog. interval timer, 8MHz	3.95	3.55	3.19
52409CM	82C54-2	DIP-24	Prog. interval timer, 10MHz	4.49	4.05	3.59
52724CM	8255	DIP-40	CPU peripheral, 2MHz	4.49	3.99	3.49
52732CM	8255A-5	DIP-40	CPU peripheral, 5MHz	4.89	4.39	3.05
291805CM	8255AC-5	DIP-40	CPU peripheral, 4MHz	4.89	4.39	2.89
52417CM	82C55A	DIP-40	CPU peripheral, 5MHz	4.99	4.49	3.99
52425CM	82C55A-5	DIP-40	CPU peripheral, 5MHz	4.49	3.99	3.49
52759CM	8256	DIP-40	UART	19.99	17.99	16.19
52775CM	8259	DIP-28	Prog. interrupt controller	1.75	1.55	1.45
52783CM	8259-5	DIP-28	Prog. interrupt controller	2.49	2.19	1.99
52821CM	8275	DIP-40	Prog. CRT controller	\$9.95	8.45	8.05
52839CM	8279	DIP-40	CPU peripheral, 5MHz	12.99	11.99	10.99
52847CM	8279-5	DIP-40	CPU peripheral, 5MHz	12.95	11.69	10.49
52855CM	8282	DIP-20	Octal latch bus driver	5.35	4.40	3.10
52871CM	8284A	DIP-18	Clock generator/driver, 8MHz	4.69	4.19	3.77
52898CM	8286	DIP-20	Octal bus transceiver	3.95	3.59	3.25
52901CM	8287	DIP-20	Octal bus transceiver	9.89	8.99	8.09
52919CM	8288	DIP-20	Bus controller	1.65	1.40	1.25
53006CM	8741	DIP-40	CPU peripheral, 5MHz	\$9.99	6.79	6.11
53014CM	8742	DIP-40	MCU, 8-bit, 18 I/O, 12MHz	8.45	7.20	6.35
53022CM	8748	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	13.95	12.56	11.11
53031CM	8748H	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	16.25	14.78	13.25
53057CM	8749H	DIP-40	CPU, 8-bit, 27 I/O, 11MHz	23.45	19.88	16.27
53073CM	8751	DIP-40	MCU, 8-bit, 32 I/O, 8MHz	\$19.99	16.99	14.45
53081CM	8751H	DIP-40	MCU, 8-bit, 32 I/O, 12MHz	24.95	20.25	18.23
52978CM	87C51	DIP-40	MCU, 8-bit, 32 I/O, 33MHz	21.99	19.79	17.49
196120CM	P87C51	DIP-40	MCU, 8-bit, 32 I/O, 24MHz	5.09	4.62	4.20
53090CM	8755	DIP-40	EPROM with I/O	8.95	8.09	7.29
248701CM	T89C51RB2	PLCC-44	MCU, 8-bit, 32 I/O, 40MHz, 16K-byte Flash	6.59	6.11	5.81
248719CM	T89C51RC2	PLCC-44	MCU, 8-bit, 32 I/O, 40MHz, 32K-byte Flash	8.45	7.25	6.55
248727CM	T89C51RD2	PLCC-44	MCU, 8-bit, 32 I/O, 40MHz, 64K-byte Flash	9.39	7.95	6.63

✦ Pull = Extra Savings ✦ Refurbished = Backed by Jameco ✦ Blue Part No. = Limited Quantity Available

## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).



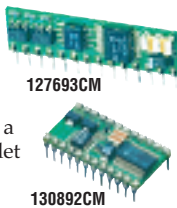
## Parallax BASIC Stamps

BASIC Stamps are small computers using a variation of BASIC called PBASIC. They are ideal for controller apps including robotics, radio-controlled interfaces of a digital camera, industrial pallet stackers, health monitoring systems, and much more. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines. Each can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Both allow you to store data in the EEPROM before downloading a BASIC program.

**Includes:** Embedded BASIC plus instruction sets; basic interpreter, EEPROM (non-volatile), a resonator and 5V regulator

Specifications:	127693CM	130892CM
EEPROM	256 bytes	2048 bytes
RAM	16 bytes	32 bytes
Cur. Draw @ 5V	2mA run/20µA	8mA run/100µA
Microcontroller	PIC16C56	PIC16C57
Program speed	2000/sec.	4000/sec.
# of I/O Pins	8	16 + 2 serial
Package	14-pin SIP	24-pin DIP
Volts Required	5-15VDC	5-15VDC
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

Part No.	Parallax No.	1	10
127693CM	BS1-IC	\$25.95	\$23.99
130892CM	BS2-IC	48.95	43.95



See page 257 for Serial LCD Modules

## Parallax BASIC Stamp 2P Modules

In addition to the BS2-SX (pg 9) features, these modules include commands for HD44780 compatible LCDs, Dallas Semiconductor 1-wire and Philips I2C parts.

- Voltage requirements: 5-12VDC
- Program execution speed: 12,000 instructions/sec.
- RAM size: 38 bytes (12 I/O, 26 variable)
- Scratch pad RAM: 128 bytes
- EEPROM program size: 2k x 8, 4,000 instructions
- Current draw @ 5V: 40mA run; 400µA sleep

**184911CM:** Number of I/O pins: 16 + 2 serial  
**184920CM:** Number of I/O pins: 32 + 2 serial

Part No.	Parallax No.	1	10
184911CM	BS2P24-IC 24-pin	\$78.95	\$70.95
184920CM	BS2P40-IC 40-pin	87.95	79.95



## Parallax 50MHz BASIC Stamp 2SX Module

High-speed version of BS2-IC.

- Volts required: 5-12 VDC
- RAM size: 32 bytes
- Scratch pad RAM: 64 bytes
- Microcontroller: Ubicom SX28AC
- Number of I/O pins: 16 + 2 serial
- EEPROM program size: 2k x 8, 4,000 instructions
- Program execution speed: 10,000 instructions/sec.
- Current draw @ 5V: 60mA run; 200µA sleep

Part No.	Parallax No.	1	10
159775CM	BS2SX-IC 24-pin	\$58.95	\$52.95



## Parallax BS2E-IC Basic Stamp Module

The BS2E-IC runs at the same speed as BASIC Stamp 2, but has the RAM and EEPROM size benefits of the BS2-SX, with much lower speed and power consumption. Ideal for those who use the BS2 and would like more variable or program space. Programmed in Windows®.

- EEPROM (program) size: 2k x 8, ~ 4,000 instructions
- RAM: 32 bytes (6 I/O, 26 variable)
- Current draw @ 5V: 20mA run/100µA sleep
- Microcontroller: Scenix SX28AC
- Program speed: 4,000 instructions/sec
- Number of I/O pins: 16 + 2 dedicated serial
- Voltage requirement: 5-12VDC • Package: DIP-24

Part No.	Parallax No.	1	10
283047CM	BS2E-IC	\$53.95	\$51.90



## Parallax BASIC Stamp 2 OEM Kit

A through-hole version of the popular BASIC Stamp modules.

- 20-pin SIP, standard 0.1" spacing
- PBASIC interpreter and EEPROM are socketed to allow for replacement
- PC board includes labeled component locations with visible traces between parts
- Programmed using PBASIC DOS or Windows®

**Includes:** PBASIC interpreter, EEPROM, resonator, DB-9, resistors and transistors

Part No.	Parallax No.	Lower \$\$\$	1	10
183071CM	27291		\$42.55	\$40.50



## Rabbit Wi-Fi Application Kit

Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system.

Wireless connectivity eliminates ethernet cables allowing greater flexibility and mobility of wireless embedded networks.

Includes a Linksys Wi-Fi card, RCM3100 microprocessor core module, prototyping board, Dynamic C® development system and complete documentation on CD-ROM, serial cable for programming and debugging, 10-pin DB15 Conversion Cable, manuals and AC adapter (U.S./Canada only).

### Applications

- Wireless automation and control
- Convenient data and event logging
- Instrumentation monitoring

Part No.	Description	Wt. (lbs.)	Price
321681CM	Wi-Fi Application Kit	2.0	\$568.95



## Rabbit Secure Embedded Web Application Kit

This kit provides optimized software development tools to easily build secure web interfaces for your new and existing applications. Built around the RCM3700 RabbitCore, the Kit offers Secure Socket Layer (SSL), which implements a 128-bit lock and key solution to encrypt data transfers.

Software bundles (RabbitWeb, FAT File System and Secure Socket Layer) included enable rapid development of secure web browser interfaces for embedded system control.

Part No.	Description	Wt. (lbs.)	Price
321470CM	Secure Embedded Web Application Kit	2.0	\$663.95



## Rabbit Multi-Port Serial to Ethernet Kit

The Rabbit Serial-to-Ethernet Kit provides the hardware and software necessary for sensors and other serial devices to communicate via a LAN or other network. This kit allows you to simultaneously connect several serial devices to a network.

This kit also includes a prototyping board, Dynamic C® development environment including a royalty-free TCP/IP stack with source code, sample applications, temperature sensor demo-board, required cables, and assorted accessories.

### Features

- Serial to ethernet applications for: digital voltmeter and temperature sensor reader and binary and hexadecimal ASCII
- Royalty-free TCP/IP stack with source code
- Configuration menu system

### Design Advantages

- Minimal ethernet experience required
- 3 step setup
- Software compatible with other Rabbit-based products

Part No.	Description	Wt. (lbs.)	Price
321656CM	Multi-Port serial to ethernet app. kit	2.0	\$375.25





## Rabbit GSM/GPRS and M2M Application Kits

This kit provides all the tools necessary to sample and develop applications that combine a Rabbit-based control device with a GSM/GPRS modem. The libraries and sample programs allow for a device connected to the cellular network to send SMS (text) messages to a RabbitCore Module (RCM) that can interpret messages as commands and in turn execute control functions.

Part No.	Description	Wt. (lbs.)	Price
321584CM	GSM/GPRS app. kit w/ Enfora modem	2.0	\$616.55
321197CM	Machine to Machine (M2M) kit w/ Wavecom modem	2.0	663.95



 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## The Rabbit 3000 Microprocessor

The new Rabbit 3000 is a high-performance, low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. Extensive integrated features and glueless architecture facilitate rapid hardware design, while a C-friendly instruction set promotes efficient development of

even the most complex applications. All development kits come complete with microprocessor core module, prototyping board, Dynamic C® development software with documentation on CD-ROM, serial cable for programming and debugging, "Getting Started" manual and AC adapter.

For detailed specifications, visit [www.Jameco.com/Rabbit](http://www.Jameco.com/Rabbit)

### RCM3000 & 3100 General Purpose Development Kits

The RCM3000 & RCM3100 are ideal options for designers who want to rapidly develop and implement embedded systems with or without integrated Ethernet connectivity.

Part No.	Description	Price
320733CM	RCM3000 ethernet enabled kit	\$284.05
320741CM	RCM3100 general purpose kit	\$226.95

### RCM3400 Development Kit

The RCM3400 is based on the low-EMI Rabbit 3000 CPU running at 29.4MHz, with 512kB Flash and 512kB SRAM on board. The development board features a 10/100Base-T Ethernet connection and can be used as a reference design in conjunction with Dynamic C's royalty-free TCP/IP software libraries included in the development kit. Additional features include 5 serial ports and 8 analog inputs with programmable gain—all in an extremely small footprint!

Part No.	Description	Price
321031CM	RCM3400 analog dev. kit	\$378.95

### RCM3200 10/100Base-T Development Kit

The RCM3200 RabbitCore™ microprocessor core module is a great choice for designers who want to rapidly implement embedded systems that require a fully integrated 10/100Base-T Ethernet connection. Additional features include a battery-backed real-time clock, glueless I/O interfacing, slave port and an alternate I/O bus.

Part No.	Description	Price
320979CM	RCM3200 ethernet enabled kit	\$331.55

### RCM3300 & 3360 Flash Development Kits

The RCM3300 RabbitCore™ microprocessor core module is ideal for designers who want to rapidly develop serial Flash into their embedded application. The RCM3300 offers 8MB of serial flash for data logging and file storage purposes.

The RCM3360 RabbitCore™ microprocessor core module presents a new form of embedded flexibility: removable xD-Picture Cards. Supports 16MB of on-board NAND Flash as well as memory cards of up to 128MB.

Part No.	Description	Price
321082CM	RCM3300 serial flash kit	\$240.55
321613CM	RCM3360 NAND flash kit	\$378.95

### RCM3600, 3700 & 3720 Combo Flash/10Base-T Kits

The RCM3600 and RCM3700/3720 RabbitCore™ development kits are the lowest priced Rabbit 3000 microprocessor based core modules designed for a wide variety of applications. Each is equipped with +5VDC tolerant I/O, quadrature encoder inputs, PWM outputs, and pulse capture and measurement capabilities.

Part No.	Description	Price
321058CM	RCM3600 above w/o ethernet	\$226.95
321074CM	RCM3700 10Base-T, 512kB SRAM kit	\$283.95
321630CM	RCM3720 10Base-T, 256kB SRAM kit	\$188.95

Model No.	RCM3000	RCM3100	RCM3200	RCM3300	RCM3360	RCM3400	RCM3600	RCM3700	RCM3720
Jameco Part No.	320733CM	320741CM	320979CM	321082CM	321613CM	321031CM	321058CM	321074CM	321630CM
CPU Speed	29.4MHz	29.4MHz	44.2MHz	44.2MHz	44.2MHz	29.4MHz	22.1MHz	22.1MHz	22.1MHz
Ethernet	10Base-T, RJ-45, 2 LEDs	None	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, RJ-45, 3 LEDs	10/100Base-T, MAC ID installed	None	10Base-T, RJ-45, 2 LEDs	10Base-T, RJ-45, 2 LEDs
Flash Memory	512k (2 x 256kB)	512k (2 x 256kB)	512kB	512kB	512kB	512kB	512kB	512kB	512kB
SRAM	512kB	512kB	512kB program + 256kB data	512kB program + 512kB data	512kB program + 512kB data	512kB	512kB	512kB	256kB
Extended Memory	None	None	None	8MB Serial Flash	16MB NAND Flash Chip, xD Removable Flash Memory	None	None	1MB Serial Flash	1MB Serial Flash
General Purpose I/O	49 digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	54 digital: 46 configurable, 4 fixed inputs, 4 fixed outputs	52 digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	49 parallel digital: 43 configurable, 3 fixed inputs, 3 fixed outputs	52 parallel digital: 44 configurable, 4 fixed inputs, 4 fixed outputs	47 digital: 41 configurable, 3 fixed inputs, 3 fixed outputs	33 parallel digital: 31 configurable, 2 fixed inputs	33 parallel digital: 31 configurable, 2 fixed inputs	33 parallel digital: 31 configurable, 2 fixed inputs
Analog Inputs	None	None	None	None	None	8-ch single-ended (11-bit) or 4-ch differential	None	None	None
Additional Inputs	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset	2 Startup mode, Reset In, CONVERT	Reset	Reset	None
Additional Outputs	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset	Status, Reset, BREF	None	None	None
External I/O	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	6 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr	5 shared w/ I/O, 8 data, plus I/O Rd, I/O Wr
Serial Ports	Six 3.3V CMOS-compatible: configurable as asynchronous (with IrDA), 4 configurable as clocked (SPI), 2 configurable as SDLC/HDLC	Six 3.3V CMOS-compatible: configurable as asynchronous (with IrDA), 4 configurable as clocked (SPI), 2 configurable as SDLC/HDLC	Five 3.3V CMOS-compatible: 3 config. clocked (SPI), 2 config. SDLC/HDLC, 1 asynch. (prog.)	Six 3.3V CMOS-compatible: 4 config. clocked (SPI), 2 config. SDLC/HDLC, 1 asynch. dedicated (prog.)	Five CMOS-compatible: 4 configurable as asynch. (w/ IrDA), 3 as clocked serial (SPI), 2 as SDLC/HDLC w/ IrDA, 1 asynch. serial port support for MIR/SIR IrDA transceiver	Four 3.3V CMOS-compatible: 4 configurable as asynchronous (with IrDA), 3 as clocked serial (SPI) and 1 as SDLC/HDLC (with IrDA) or 1 SPI and 2 SDLC/HDLC, 1 asynchronous serial port (programming)			
Power	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 75mA	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 150mA	3.15 - 3.45VDC @ 150mA	3.0-3.45VDC @ 97mA	4.75-12.6VDC @ 60mA	4.75-5.25VDC @ 100mA	4.75-5.25VDC @ 100mA
Board Size	2.73" x 1.85" x 0.86"	1.85" x 1.65" x 0.55"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	2.73" x 1.85" x 0.86"	1.37" x 1.16" x 0.31"	2.10" x 1.20" x 0.62"	2.95" x 1.20" x 0.85"	2.95" x 1.20" x 0.85"
Connectors	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17.2mm IDC headers	Two 2 x 17 (1.27mm) IDC headers	One 2 x 20, 0.10" IDC headers	One 2 x 20, 0.10" IDC headers	One 2 x 20, 0.10" IDC headers
Included	RabbitCore™ module, development board w/ prototyping area, Dynamic C development system and documentation on CD-ROM, serial cable, "Getting Started" manual, and AC adapter								
Price	\$284.05	\$226.95	\$331.55	\$240.55	\$378.95	\$378.95	\$226.95	\$283.95	\$188.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



# Development Kits, Microcontrollers, Voice Chips & EPROM

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## Microprocessor Starter Kit



Imagine Tools

This Microprocessor Starter Kit is designed to work with several different forms of applications via system control: commands and feedback, data acquisition, and custom hardware setups specific to user requirements. Whether you are an embedded systems expert, or an electronics novice, Imagine Tools offers an educational community devoted to bringing as much value to a kit purchase as possible by offering free downloadable products, application ideas, and support. The microprocessor starter kit is ideal for hobbyists, enthusiasts, and entrepreneurs seeking to create a killer product and/or application.

- 256k FLASH/128k SRAM
- Input voltage: 24-40VAC, 7-40VDC
- 33 digital I/O ports
- Current draw: 43mA typ.@12V, 16mA typ.@40V
- 4 serial ports

**Kit Includes:** RCM3610 module with Rabbit 300A microprocessor, starter board, software CD, hardware, and power supply.

Part No.	Description	Price
354992CM	Microprocessor starter kit	\$94.05

## Ethernet Starter Kit



Imagine Tools

This starter kit is ideal for hobbyists, students and inventors who want to learn about C programming, TCP/IP programming and interfacing electronic devices with microprocessors. Fun and useful application projects take you step-by-step through hardware and software development. Create new applications such as a WAV file player, DC and stepper motor controller, GPS clock, and much more.

- Input voltage: 24-28VAC, 7-40VDC
- Current draw: 43mA typ.@12V, 16mA typ. @ 40V

**Hardware Includes:** RCM3700 Rabbit Microprocessor Core Module plus prototyping and breadboards (6.5" L x 2.2" W), 12VDC @ 1A power supply, serial cable, 2 Ethernet cables, 8Ω 400mW speaker, wiring kit, 10kΩ thermistor, 0.1μF capacitor, 10kΩ potentiometer, headers, and standoffs.

**Software Includes:** Dynamic C lite, libraries and samples, as well as royalty free TCP/IP protocol stack.

Part No.	Description	Price
355004CM	Ethernet starter kit	\$141.55

## Basic Microcontrollers

DIP



### 80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked microcontroller with a full-featured 8k-byte ROM-resident BASIC-52 interpreter. 256 x 8-bit RAM.

**Hardware:** • On-chip oscillator & clock circuit • Operates DC to 12MHz

**Software:** • Full BASIC interpreter in ROM on a single chip  
• "Stand-alone" software development  
• Interrupts can be handled by BASIC or Assembly Language

Part No.	Product No.	Description	1	10	100
125647CM	80C52BASIC	40-pin CPU 8-bit CMOS w/ BASIC interpreter	\$32.75	\$29.47	\$26.51

### 50MIPS SX Microcontroller

Part No.	Parallax No.	Description	1	10	100
162931CM	SX28AC/DP	DIP-28 50MIPS SX microcontroller	\$4.99	\$4.89	\$4.79
283063CM	SX48BD	PQFP-48 flash RAM	5.15	4.90	4.45



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## Voice Chips

### Single-Chip Voice Record/Playback Devices 10 to 120 Second Durations (28-pin DIP)



107334CM

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Fully addressable to handle multiple messages
- On-chip automatic gain control (AGC) and clock source
- Typical 100k record cycles, 1μA standby current and 100 year message retention
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated

Part No.	Product No.	Description	1	10	50
141671CM	ISD1110P	Voice record/playback (10 sec.)	\$5.99	\$5.75	\$5.50
107334CM	ISD1420P	Voice record/playback (20 sec.)	6.85	5.75	4.65
120643CM	ISD2560P	Voice record/playback (60 sec.)	10.49	9.49	7.65
120660CM	ISD2590P	Voice record/playback (90 sec.)	11.75	9.99	7.49
141655CM	ISD25120P	Voice record/playback (120 sec.)	12.45	11.85	8.80

## EPROM

DIP

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
39909CM	2708	DIP-24	1k x 8	450ns, 5V	\$4.99	\$4.29	\$3.19
33611CM	TMS2716	DIP-24	2k x 8	450ns, 5V	2.25	1.99	1.79
40002CM	2716	DIP-24	2k x 8	450ns, 5V	4.09	3.69	3.29
39706CM	27C16	DIP-24	2k x 8	450ns, 5V	6.99	5.99	4.99
308662CM	2716A-2	DIP-24	2k x 8	200ns, 5V	6.09	5.48	5.03
40011CM	2716-1	DIP-24	2k x 8	350ns, 5V	6.49	5.89	5.39
265931CM	27C16-200	DIP-24	2k x 8	200ns, 5V	3.99	3.59	2.99
265965CM	27C16-150	DIP-24	2k x 8	150ns, 5V	6.15	5.20	3.90
40096CM	2732	DIP-24	4k x 8	450ns, 5V	6.49	5.49	4.19
39765CM	27C32	DIP-24	4k x 8	450ns, 5V	5.49	4.95	4.45
40133CM	2732A-45	DIP-24	4k x 8	450ns, 5V	3.99	3.69	3.29
33591CM	TMS2532	DIP-24	4k x 8	450ns, 5V	3.99	3.59	3.19
114876CM	2732B	DIP-24	4k x 8	450ns, 5V	4.19	3.79	3.39
40125CM	2732A-25	DIP-24	4k x 8	250ns, 5V	4.99	4.49	3.99
40109CM	2732A-20	DIP-24	4k x 8	200ns, 5V	6.49	5.99	5.49
265990CM	27C32-200	DIP-24	4k x 8	200ns, 5V	5.99	4.99	3.99
266001CM	27C32-150	DIP-24	4k x 8	150ns, 5V	6.99	5.99	4.99
40205CM	2764-25	DIP-28	8k x 8	250ns, 5V	4.75	4.30	3.85
40248CM	2764A-25	DIP-28	8k x 8	250ns, 5V	3.99	3.69	3.09
39845CM	27C64-25	DIP-28	8k x 8	250ns, 5V	4.05	3.65	3.40
40192CM	2764-20	DIP-28	8k x 8	200ns, 5V	5.29	4.79	4.29
40230CM	2764A-20	DIP-28	8k x 8	200ns, 5V	4.49	4.09	3.69
74608CM	27C64-20	DIP-28	8k x 8	200ns, 5V	4.15	3.60	3.44
39829CM	27C64-15	DIP-28	8k x 8	150ns, 5V	3.95	3.63	3.10
105304CM	27C64-12	DIP-28	8k x 8	120ns, 5V	3.29	2.98	2.71
266036CM	27C64-100	DIP-28	8k x 8	100ns, 5V	4.09	3.59	2.69
266044CM	27C64-70	DIP-28	8k x 8	70ns, 5V	4.85	4.12	3.70
39933CM	27128-25	DIP-28	16k x 8	250ns, 5V	4.29	3.99	3.49
39984CM	27128A-25	DIP-28	16k x 8	250ns, 5V	4.49	4.09	3.69
39685CM	27C128-25	DIP-28	16k x 8	250ns, 5V	3.99	3.59	3.29
39968CM	27128A-20	DIP-28	16k x 8	200ns, 5V	4.25	3.75	3.40
101101CM	27C128-20	DIP-28	16k x 8	200ns, 5V	4.39	3.95	3.56
39950CM	27128A-15	DIP-28	16k x 8	150ns, 5V	4.05	3.60	3.25
39677CM	27C128-15	DIP-28	16k x 8	150ns, 5V	4.29	3.89	3.49
87935CM	27C128-12	DIP-28	16k x 8	120ns, 5V	4.45	3.78	2.84
266061CM	27C128-100	DIP-28	16k x 8	100ns, 5V	4.39	3.86	3.50
149665CM	27C128-70	DIP-28	16k x 8	70ns, 5V	4.89	4.29	3.89
40061CM	27256-25	DIP-28	32k x 8	250ns, 5V	3.19	2.99	2.69
39731CM	27C256-25	DIP-28	32k x 8	250ns, 5V	3.19	2.99	2.69
40045CM	27256-20	DIP-28	32k x 8	200ns, 5V	3.39	2.96	2.69
39722CM	27C256-20	DIP-28	32k x 8	200ns, 5V	2.59	2.49	2.19
40037CM	27256-15	DIP-28	32k x 8	150ns, 5V	3.45	3.25	2.93
39714CM	27C256-15	DIP-28	32k x 8	150ns, 5V	2.09	1.79	1.59
65904CM	27C256-12	DIP-28	32k x 8	120ns, 5V	2.09	1.99	1.79
112740CM	27C256-10	DIP-28	32k x 8	100ns, 5V	2.95	2.80	2.35
140476CM	27C256-70	DIP-28	32k x 8	70ns, 5V	3.39	3.19	2.99
266079CM	27C256-55	DIP-28	32k x 8	55ns, 5V	4.99	4.79	4.29

✦ Refurbished = Backed by Jameco

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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# EPROM, OTP/PROM & EEPROM



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Color Code Legend			
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## EPROM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
40168CM	27512-25	DIP-28	64k x 8	250ns, 5V	\$3.69	\$3.39	\$3.09
39802CM	27C512-25	DIP-28	64k x 8	250ns, 5V	4.75	4.39	3.95
40150CM	27512-20	DIP-28	64k x 8	200ns, 5V	2.69	2.39	2.19
39790CM	27C512-20	DIP-28	64k x 8	200ns, 5V	3.09	2.89	2.59
39781CM	27C512-15	DIP-28	64k x 8	150ns, 5V	2.09	1.99	1.79
39773CM	27C512-12	DIP-28	64k x 8	120ns, 5V	2.15	2.04	1.69
131959CM	27C512-10	DIP-28	64k x 8	100ns, 5V	3.05	2.89	2.16
175206CM	27C512-90	DIP-28	64k x 8	90ns, 5V	1.75	1.68	1.60
203625CM	27C512-70	DIP-28	64k x 8	70ns, 5V	2.69	2.37	1.79
266087CM	27C512-55	DIP-28	64k x 8	55ns, 5V	2.69	2.24	1.79
203617CM	27C512-45	DIP-28	64k x 8	45ns, 5V	2.69	2.25	1.68
118148CM	27C1024-15	DIP-40	64k x 16	150ns, 5V	5.25	4.83	3.62
203641CM	27C1024-12	DIP-40	64k x 16	120ns, 5V	5.29	4.79	4.39
203633CM	27C1024-80	DIP-40	64k x 16	80ns, 5V	2.79	2.64	2.58
39669CM	27C010-20	DIP-32	128k x 8	200ns, 5V	2.09	1.85	1.52
39651CM	27C010-15	DIP-32	128k x 8	150ns, 5V	2.09	1.90	1.75
74624CM	27C010-12	DIP-32	128k x 8	120ns, 5V	1.99	1.90	1.70
79231CM	27C010-10	DIP-32	128k x 8	100ns, 5V	2.09	1.75	1.60
137699CM	27C010-80	DIP-32	128k x 8	80ns, 5V	5.15	4.61	4.09
146149CM	27C010-70	DIP-32	128k x 8	70ns, 5V	2.49	2.29	2.09
266095CM	27C010-55	DIP-32	128k x 8	55ns, 5V	3.19	2.65	2.12
137701CM	27C010-45	DIP-32	128k x 8	45ns, 5V	3.15	2.86	2.60
65681CM	27C020-20	DIP-32	256k x 8	200ns, 5V	\$3.49	2.95	2.60
65699CM	27C020-15	DIP-32	256k x 8	150ns, 5V	5.29	4.99	4.49
78852CM	27C020-12	DIP-32	256k x 8	120ns, 5V	4.35	4.15	3.95
156267CM	27C020-10	DIP-32	256k x 8	100ns, 5V	2.85	2.65	2.18
203650CM	27C020-80	DIP-32	256k x 8	80ns, 5V	\$4.25	3.45	2.90
266108CM	27C020-70	DIP-32	256k x 8	70ns, 5V	4.35	3.85	2.90
266116CM	27C020-55	DIP-32	256k x 8	55ns, 5V	3.49	3.19	2.90
127933CM	27C040-12	DIP-40	512k x 16	120ns, 5V	6.95	5.91	4.43
85462CM	27C040-15	DIP-32	512k x 8	150ns, 5V	5.05	4.35	3.75
102293CM	27C040-12	DIP-32	512k x 8	120ns, 5V	5.05	4.35	3.75
111780CM	27C040-10	DIP-32	512k x 8	100ns, 5V	5.05	4.35	3.26
203676CM	27C040-80	DIP-32	512k x 8	80ns, 5V	5.05	4.99	4.95
266124CM	27C040-70	DIP-32	512k x 8	70ns, 5V	5.05	4.35	3.75
266132CM	27C040-55	DIP-32	512k x 8	55ns, 5V	5.05	4.75	3.56
203668CM	27C040-45	DIP-32	512k x 8	45ns, 5V	6.15	5.85	5.58
140003CM	27C080-12	DIP-32	1M x 8	120ns, 5V	10.05	9.50	8.50
265842CM	27C800-12	DIP-42	1M x 8	120ns, 5V	12.59	11.59	10.59
156275CM	27C080-10	DIP-32	1M x 8	100ns, 5V	11.05	10.20	7.65
203684CM	27C080-90	DIP-32	1M x 8	90ns, 5V	10.85	10.15	7.61
156283CM	27C160-10	DIP-42	2M x 8	100ns, 5V	18.95	18.05	13.37

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See EPROM programmers and erasers on pages 316 & 317

## EPROM Accessories

Part No.	Cross Ref.	Description	1	5
13864CM	CF2	Conductive foam (12" x 24" x .25") hard black	\$9.29	\$8.35
15712CM	DE4	8-chip UV-EPROM eraser, pg 318	106.85	101.49

## OTP/PROM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48531CM	74S188	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	\$4.39	\$3.95	\$3.45
48717CM	74S288	DIP-16	32 x 8	256-bit, 5V, 25ns, PROM	8.15	7.03	6.04
27844CM	N82S23	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	5.99	5.39	4.89
27764CM	N82S123	DIP-16	32 x 8	256-bit, 7V, 50ns, PROM	9.49	9.10	8.65
48696CM	74S287	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	11.95	10.75	9.69
48805CM	74S387	DIP-16	256 x 4	1-kbit, 5V, 30ns, PROM	3.09	2.79	2.55
27772CM	N82S126	DIP-16	256 x 4	1-kbit, 5V, 50ns, PROM	9.35	8.15	7.10
27781CM	N82S129	DIP-16	256 x 4	1-kbit, 7V, 50ns, PROM	9.95	9.45	8.30

## OTP/PROM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
48910CM	74S571	DIP-16	512 x 4	2-kbit, 5V, 35ns, PROM	\$5.69	\$5.45	\$4.95
27799CM	N82S131	DIP-16	512 x 4	2-kbit, 7V, 50ns, PROM	7.99	6.99	5.99
48928CM	74S573	DIP-18	1k x 4	4-kbit, 5V, 35ns, PROM	4.25	3.61	3.25
27801CM	N82S137	DIP-18	1k x 4	4-kbit, 7V, 60ns, PROM	6.95	6.25	5.65
27810CM	N82S181	DIP-24	1k x 8	8-kbit, 7V, 70ns, PROM	6.59	5.59	4.89
27828CM	N82S185	DIP-18	2k x 4	8-kbit, 7V, 100ns, PROM	3.89	3.19	3.09
27836CM	N82S191	DIP-24	2k x 8	16-kbit, 7V, 35ns, PROM	8.95	7.85	7.15
266212CM	27C64A-20	PLCC-32	8k x 8	64-kbit, 5V, 200ns, OTP	1.95	1.85	1.55
394978CM	AT72C256R-45J	PLCC-32	32k x 8	256-kbit, 5V, 45ns, I-temp. OTP	1.09	.95	.89
394986CM	AT72C256R-45PI	DIP-28	32k x 8	256-kbit, 45ns OTP, LP, I-temp.	1.09	.95	.89
266327CM	27C256-55	PLCC-32	32k x 8	256-kbit, 5V, 55ns, OTP	2.25	1.95	1.90
395014CM	AT72C256R-70J	PLCC-32	32k x 8	256-kbit, 5V, 70ns, I-temp. OTP	.95	.80	.76
266319CM	27C256-70	PLCC-32	32k x 8	256-kbit, 5V, 70ns, OTP	\$4.25	1.05	.95
266280CM	27C256-10	PLCC-32	32k x 8	256-kbit, 5V, 100ns, OTP	1.99	1.69	1.27
266255CM	27C256-15	PLCC-32	32k x 8	256-kbit, 5V, 150ns, OTP	1.15	1.05	.91
266247CM	27C256-20	PLCC-32	32k x 8	256-kbit, 5V, 200ns, OTP	1.59	1.43	1.07
395049CM	AT72C512R-45PI	DIP-28	64k x 8	512-kbit, 5V, 45ns, OTP	1.09	.95	.89
266386CM	27C512-55	PLCC-32	64k x 8	512-kbit, 5V, 55ns, OTP	2.25	2.05	1.54
395073CM	AT72C512R-70J	PLCC-32	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.09	.95	.89
395081CM	AT72C512R-70PI	DIP-28	64k x 8	512-kbit, 5V, 70ns, I-temp., OTP	1.09	.95	.89
266351CM	27C512-70	PLCC-32	64k x 8	512-kbit, 5V, 70ns, OTP	\$4.45	1.25	1.15
203730CM	27C512-10	PLCC-32	64k x 8	512-kbit, 5V, 100ns, OTP	\$4.99	1.65	1.59
203692CM	27C512-12	OTDIP-28	64k x 8	512-kbit, 5V, 100ns, OTP	2.09	1.89	1.79
266343CM	27C512-15	PLCC-32	64k x 8	512-kbit, 5V, 150ns, OTP	.95	.83	.62
266335CM	27C512-20	PLCC-32	64k x 8	512-kbit, 5V, 200ns, OTP	1.79	1.52	1.14
394644CM	AT72BV1024-12J	PLCC-44	64k x 16	1-Mbit, 2.7V, 120ns, I-temp., OTP	3.99	3.91	3.87
394652CM	AT72BV1024-12M	VSOP-40	64k x 16	1-Mbit, 2.7V, 120ns, I-temp., OTP	5.09	4.75	4.70
266811CM	27C010-55	PLCC-32	128k x 8	1-Mbit, 5V, 55ns OTP	2.09	1.85	1.55
394695CM	AT72C010-70J	PLCC-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	2.15	1.75	1.52
394708CM	AT72C010-70PI	DIP-32	128k x 8	1-Mbit, 5V, 70ns, I-temp., OTP	1.25	1.09	1.05
266802CM	27C010-70	PLCC-32	128k x 8	1-Mbit, 5V, 70ns OTP	\$4.95	1.65	1.45
203705CM	27C010-10	OTDIP-32	128k x 8	1-Mbit, 5V, 100ns OTP	2.29	2.19	1.99
203748CM	27C010-10	PLCC-32	128k x 8	1-Mbit, 5V, 100ns OTP	2.09	1.85	1.52
266790CM	27C010-15	PLCC-32	128k x 8	1-Mbit, 5V, 150ns OTP	1.55	1.33	1.00
266394CM	27C010-20	PLCC-32	128k x 8	1-Mbit, 5V, 200ns OTP	\$4.35	1.15	1.05
267101CM	27C020-70	PLCC-32	256k x 8	2-Mbit, 5V, 70ns OTP	3.09	2.80	2.48
394791CM	AT72C020-90PI	DIP-32	256k x 8	2-Mbit, 5V, 90ns, I-temp., OTP	1.65	1.48	1.41
203756CM	27C020-10	PLCC-32	256k x 8	2-Mbit, 5V, 100ns, I-temp., OTP	2.95	2.69	2.44
266888CM	27C020-15	PLCC-32	256k x 8	2-Mbit, 5V, 100ns, OTP	\$3.65	3.09	2.81
266853CM	27C020-20	PLCC-32	256k x 8	2-Mbit, 5V, 200ns, OTP	\$3.29	2.79	2.67
203764CM	27C040-10	PLCC-32	512k x 8	4-Mbit, 5V, 100ns, OTP	3.85	3.50	3.18
267160CM	27C040-15	PLCC-32	512k x 8	4-Mbit, 5V, 150ns, OTP	\$3.39	2.89	2.45
267303CM	27C080-10	PLCC-32	1M x 8	8-Mbit, 5V, 100ns, OTP	9.89	8.82	6.60
267215CM	27C080-15	PLCC-32	1M x 8	8-Mbit, 5V, 150ns, OTP	4.29	3.90	2.92

✦ Blue Part No. = Limited Quantity Available

## EEPROM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
276584CM	24C00	SOIC-8	16 x 8	2-wire serial, 5V	\$0.32	\$0.27	\$0.20
276568CM	24C00	DIP-8	16 x 8	2-wire serial, 5V	.29	.26	.22
200627CM	24C44	DIP-8	16 x 16	Serial, 5V	1.99	1.69	1.26
276955CM	93C46	SOIC-8	64 x 16	3-wire serial, 2-5V	.39	.32	.29
102058CM	93C46	DIP-8	64 x 16	3-wire serial, 2-5V	.43	.32	.24
276592CM	24C01	DIP-8	128 x 8	2-wire serial, 2-5V	.36	.30	.25
276621CM	24C01	SOIC-8	128 x 8	2-wire serial, 2-5V	.29	.25	.18
368649CM	AT2401A-10PI-27	DIP-8	128 x 8	2-wire serial, 2.7V, I-temp.	.28	.20	.19
368711CM	AT2401A-10SI-27	SOIC-8	128 x 8	2-wire serial, 2.7V, I-temp.	.56	.481	.454
276971CM	93C56	SOIC-8	128 x 16	3-wire serial, 2-5V	\$0.54	.45	.42
108855CM	93C56	DIP-8	128 x 16	3-wire serial, 2-5V	\$0.48	.29	.26
276630CM	24C02	SOIC-8	256 x 8	2-wire serial, 5V	.37	.31	.233
368868CM	AT2402A-10SI-27	SOIC-8	256 x 8	2-wire serial, 2.7V, I-temp.	.62	.59	.545

✦ RoHS compliant product

✦ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## EEPROM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
368913CM	AT24C02N-10S-1.8	SOIC-8	256 x 8	2-wire serial, 1.8V, I-temp. ....	<b>\$ .58</b>	<b>\$ .46</b>	<b>\$ .415</b>
108839CM	24C02P	DIP-8	256 x 8	2-wire serial, 5V .....	<b>.40</b>	<b>.38</b>	<b>(.28)</b>
369617CM	AT24C04N-10P-2.7	DIP-8	256 x 8	SPI serial, 2.7V, I-temp. ....	<b>.56</b>	<b>.54</b>	<b>.49</b>
276980CM	93C66	SOIC-8	256 x 16	3-wire serial, 2-5V .....	<b>.37</b>	<b>.36</b>	<b>(.27)</b>
200598CM	93C66	DIP-8	256 x 16	3-wire Serial, 2-5V .....	<b>.51</b>	<b>.42</b>	<b>(.31)</b>
276648CM	24C04	SOIC-8	512 x 8	2-wire serial, 2-5V .....	<b>.34</b>	<b>.29</b>	<b>(.22)</b>
368930CM	AT24C04N-10P-2.7	DIP-8	512 x 8	2-wire serial, 2.7V, I-temp. ....	<b>.53</b>	<b>.48</b>	<b>.33</b>
108847CM	24C04P	DIP-8	512 x 8	2-wire serial, 2-5V .....	<b>.71</b>	<b>.64</b>	<b>(.48)</b>
369086CM	AT24C04N-10S-2.7	SOIC-8	512 x 8	2-wire serial, 2.7V, I-temp. ....	<b>.69</b>	<b>.66</b>	<b>.60</b>
276664CM	24C08	SOIC-8	1k x 8	2-wire serial, 2-5V .....	<b>.30</b>	<b>.29</b>	<b>.27</b>
200547CM	24C08-10	DIP-8	1k x 8	2-wire serial, 2-5V .....	<b>.79</b>	<b>.72</b>	<b>.65</b>
369220CM	AT24C08N-10S-2.7	SOIC-8	1k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.31</b>	<b>.305</b>	<b>.285</b>
277018CM	93C86	SOIC-8	1k x 16	3-wire serial, 2-5V .....	<b>\$1.07</b>	<b>.90</b>	<b>.88</b>
200601CM	93C86	DIP-8	1k x 16	3-wire serial, 2-5V .....	<b>.72</b>	<b>.59</b>	<b>(.44)</b>
276681CM	24C16	SOIC-8	2k x 8	2-wire serial, 2-5V .....	<b>.45</b>	<b>.42</b>	<b>.37</b>
200555CM	24C16-10	DIP-8	2k x 8	2-wire serial, 5V .....	<b>.89</b>	<b>.80</b>	<b>.66</b>
369369CM	AT24C16A-10P-2.7	DIP-8	2k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.43</b>	<b>.33</b>	<b>.32</b>
368809CM	AT24C16N-10S-1.8	SOIC-8	2k x 8	2-wire serial, 1.8V, I-temp. ....	<b>.42</b>	<b>.407</b>	<b>.378</b>
368948CM	AT24C16N-10S-2.7	SOIC-8	2k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.37</b>	<b>.36</b>	<b>.34</b>
369836CM	AT25160-10P-1.8	DIP-8	2k x 8	SPI serial, 1.8V, I-temp. ....	<b>1.49</b>	<b>1.45</b>	<b>1.39</b>
369810CM	AT25160A-10P-1.8	DIP-8	2k x 8	SPI serial, 1.8V, I-temp. ....	<b>.52</b>	<b>.50</b>	<b>.453</b>
369893CM	AT25160N-10S-2.7	SOIC-8	2k x 8	SPI serial, 2.7V, I-temp. ....	<b>.72</b>	<b>.60</b>	<b>.53</b>
395292CM	AT288V16-25JC	PLCC-32	2k x 8	2.7V .....	<b>3.25</b>	<b>3.22</b>	<b>3.19</b>
276699CM	28C16	SOIC-24	2k x 8	Page Parallel, 5V .....	<b>2.45</b>	<b>1.98</b>	<b>1.73</b>
74691CM	28C16A-25	DIP-24	2k x 8	Page Parallel, 5V .....	<b>3.99</b>	<b>3.69</b>	<b>3.39</b>
276701CM	28C17	DIP-28	2k x 8	Page Parallel, 5V .....	<b>2.29</b>	<b>2.05</b>	<b>1.95</b>
40416CM	2817A-25	DIP-28	2k x 8	Page Parallel, 5V .....	<b>7.15</b>	<b>6.45</b>	<b>5.85</b>
276728CM	24C32	SOIC-8	4k x 8	2-wire serial, 5V .....	<b>\$0.42</b>	<b>.36</b>	<b>.32</b>
200563CM	24C32-10	DIP-8	4k x 8	2-wire serial, 5V .....	<b>1.08</b>	<b>.87</b>	<b>.77</b>
369449CM	AT24C32A-10P-2.7	DIP-8	4k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.76</b>	<b>.65</b>	<b>.47</b>
369473CM	AT24C32N-10S-1.8	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.47</b>	<b>.46</b>	<b>.42</b>
369481CM	AT24C32N-10S-2.7	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp. ....	<b>1.09</b>	<b>.86</b>	<b>.77</b>
369502CM	AT24C32N-10S-2.7	SOIC-8	4k x 8	2-wire serial, 2.7V, I-temp. ....	<b>2.35</b>	<b>1.43</b>	<b>1.27</b>
369983CM	AT25320N-10S-2.7	SOIC-8	4k x 8	SPI serial, 2.7V, I-temp. ....	<b>1.49</b>	<b>1.43</b>	<b>1.30</b>
276744CM	24C64	SOIC-8	8k x 8	2-wire serial, 2-5V .....	<b>.49</b>	<b>.45</b>	<b>.42</b>
369570CM	AT24C64A-10T-2.7	TSSOP-8	8k x 8	2-wire serial, 2.7V, I-temp. ....	<b>4.35</b>	<b>3.85</b>	<b>3.73</b>
369537CM	AT24C64N-10S-2.7	SOIC-8	8k x 8	2-wire serial, 2.7V, I-temp. ....	<b>.49</b>	<b>.48</b>	<b>.46</b>
200619CM	24C65	DIP-8	8k x 8	2-wire serial, 2-5V .....	<b>2.15</b>	<b>2.05</b>	<b>1.85</b>
368737CM	AT25640N-10S-1.8	SOIC-8	256 x 8	SPI serial, 1.8V, I-temp. ....	<b>1.15</b>	<b>1.15</b>	<b>.97</b>
276752CM	28C64	SOIC-28	8k x 8	Page Parallel, 5V .....	<b>3.69</b>	<b>3.14</b>	<b>(2.35)</b>
74827CM	28C64A-25	DIP-28	8k x 8	Page Parallel, 5V .....	<b>4.45</b>	<b>3.80</b>	<b>3.65</b>
40475CM	2865A	DIP-28	8k x 8	5V .....	<b>4.95</b>	<b>4.49</b>	<b>4.05</b>
276787CM	24C128	SOIC-8	16k x 8	2-wire serial, 2-5V .....	<b>1.05</b>	<b>.89</b>	<b>(.67)</b>
200571CM	24C128-10	DIP-8	16k x 8	2-wire serial, 2-5V .....	<b>1.65</b>	<b>1.35</b>	<b>1.20</b>
369271CM	AT24C128-10P-1.8	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp. ....	<b>1.89</b>	<b>1.86</b>	<b>1.65</b>
369289CM	AT24C128-10P-2.7	DIP-8	16k x 8	2-wire serial, 2.7V, I-temp. ....	<b>1.89</b>	<b>1.85</b>	<b>1.70</b>
369326CM	AT24C128N-10S-2.7	SOIC-8	16k x 8	2-wire serial, 2.7V, I-temp. ....	<b>1.89</b>	<b>1.83</b>	<b>1.68</b>
276808CM	24C256	SOIC-8	32k x 8	2-wire serial, 5V .....	<b>1.45</b>	<b>1.23</b>	<b>(.92)</b>
200580CM	24C256-10	DIP-8	32k x 8	2-wire serial, 2-5V .....	<b>2.35</b>	<b>1.90</b>	<b>1.70</b>
369406CM	AT24C256N-10S-1.8	SOIC-8	32k x 8	2-wire serial, 1.8V, I-temp. ....	<b>3.15</b>	<b>2.54</b>	<b>2.25</b>
369414CM	AT24C256N-10S-2.7	SOIC-8	32k x 8	2-wire serial, 2.7V, I-temp. ....	<b>3.45</b>	<b>3.10</b>	<b>2.80</b>
395330CM	AT288V256-20SC	SOIC-28	32k x 8	Page Parallel, 2.7V .....	<b>11.45</b>	<b>11.05</b>	<b>10.70</b>
276816CM	28C256	SOIC-28	32k x 8	Page Parallel, 5V .....	<b>8.49</b>	<b>7.22</b>	<b>(5.41)</b>
74878CM	28C256-25	DIP-28	32k x 8	Page Parallel, 5V .....	<b>8.25</b>	<b>7.10</b>	<b>7.05</b>
74843CM	28C256-15	DIP-28	32k x 8	Page Parallel, 5V .....	<b>8.99</b>	<b>6.89</b>	<b>6.19</b>
276875CM	24C512	SOIC-8	64k x 8	2-wire serial, 2-5V .....	<b>2.15</b>	<b>2.07</b>	<b>1.98</b>
276832CM	24C512	DIP-8	64k x 8	2-wire serial, 2-5V .....	<b>2.15</b>	<b>2.08</b>	<b>1.91</b>
276921CM	AT24C1024	SOIC-8	128k x 8	2-wire serial, 2.7-5V .....	<b>5.09</b>	<b>4.62</b>	<b>4.20</b>
276912CM	24C1024	DIP-8	128k x 8	2-wire serial, 2.7-5V .....	<b>6.65</b>	<b>5.18</b>	<b>4.77</b>
276947CM	28C010	PLCC-32	128k x 8	Page Parallel, 5V .....	<b>23.75</b>	<b>16.19</b>	<b>(12.14)</b>
242253CM	28C010-15	DIP-32	128k x 8	Page Parallel, 5V .....	<b>30.85</b>	<b>28.05</b>	<b>25.50</b>
395372CM	AT28LV010-20TC	TSSOP-32	128k x 8	Page Parallel, 3.3V .....	<b>37.29</b>	<b>35.99</b>	<b>34.69</b>

## Flash Memory - Serial Flash

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
659913CM	M25P05-AVMN6	SOIC-8	64k x 8	3V w/ 20MHz SPI bus interf. ....	<b>\$1.69</b>	<b>\$1.48</b>	<b>\$1.15</b>
321605CM	M25P10-AVMN6	SOIC-8	128k x 8	3V w/ 40MHz SPI bus interf. ...	<b>1.49</b>	<b>1.37</b>	<b>1.24</b>
321648CM	M25P20-VMN6	SOIC-8	256k x 8	3V w/ 40MHz SPI bus interf. ....	<b>1.75</b>	<b>1.60</b>	<b>1.45</b>
321664CM	M25P40-VMN6	SOIC-8	512k x 8	3V w/ 40MHz SPI bus interf. ....	<b>3.05</b>	<b>2.88</b>	<b>2.74</b>
321672CM	M25P80-VMN6	SOIC-8	1M x 8	3V w/ 40MHz SPI bus interf. ....	<b>3.35</b>	<b>2.98</b>	<b>2.83</b>

## Flash Memory - NOR

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
375929CM	AT29LV256-15JC	PLCC-32	32k x 8	150ns, 3V .....	<b>\$4.15</b>	<b>\$3.95</b>	<b>\$3.75</b>
376059CM	AT29C512-70JC	PLCC-32	64k x 8	70ns, 5V .....	<b>1.75</b>	<b>1.52</b>	<b>1.50</b>
242552CM	29C512-12	DIP-32	64k x 8	120ns, 5V .....	<b>5.25</b>	<b>4.25</b>	<b>4.15</b>
242561CM	29F512-90	DIP-32	64k x 8	90ns, 5V .....	<b>4.69</b>	<b>3.89</b>	<b>3.59</b>
375937CM	AT29LV512-15JC	PLCC-32	64k x 8	90ns, 3V .....	<b>1.99</b>	<b>1.97</b>	<b>1.95</b>
375785CM	AT49BV512-12JC	PLCC-32	64k x 8	120ns, 2.7V .....	<b>4.25</b>	<b>4.10</b>	<b>4.05</b>
375961CM	AT29LV1024-15JC	PLCC-44	64k x 16	150ns, 3V .....	<b>2.69</b>	<b>2.44</b>	<b>2.39</b>
74771CM	28F010-15	DIP-32	128k x 8	150ns, 5V .....	<b>5.49</b>	<b>4.12</b>	<b>3.66</b>
376075CM	AT29C010A-70JC	PLCC-32	128k x 8	70ns, 5V .....	<b>2.35</b>	<b>2.15</b>	<b>2.12</b>
242587CM	29F010-120	DIP-32	128k x 8	120ns, 5V .....	<b>3.95</b>	<b>3.65</b>	<b>3.15</b>
242595CM	29F010-90	DIP-32	128k x 8	90ns, 5V .....	<b>5.35</b>	<b>4.34</b>	<b>3.61</b>
242608CM	29F010-70	DIP-32	128k x 8	70ns, 5V .....	<b>6.09</b>	<b>5.18</b>	<b>(3.88)</b>
375953CM	AT29LV010A-15JC	PLCC-32	128k x 8	150ns, 3V .....	<b>2.39</b>	<b>2.14</b>	<b>2.12</b>
74835CM	28F020-15	DIP-32	256k x 8	150ns, 5V .....	<b>7.95</b>	<b>7.15</b>	<b>6.45</b>
376121CM	AT29C020-90JL	PLCC-32	256k x 8	90ns, 5V, I-temp. ....	<b>3.39</b>	<b>3.10</b>	<b>3.05</b>
242616CM	29F020-12	DIP-32	256k x 8	120ns, 5V .....	<b>5.35</b>	<b>5.15</b>	<b>4.95</b>
375988CM	AT29LV020-20JC	PLCC-32	256k x 8	200ns, 3V .....	<b>3.39</b>	<b>3.14</b>	<b>3.10</b>
375814CM	AT49BV020A-70JL	PLCC-32	256k x 8	70ns, 2.7V, I-temp. ....	<b>1.65</b>	<b>1.58</b>	<b>1.51</b>
376366CM	AT49BV020AT-55JL	PLCC-32	256k x 8	55ns, 5V, I-temp. ....	<b>2.05</b>	<b>1.85</b>	<b>1.78</b>
376163CM	AT29C040A-90JL	PLCC-32	512k x 8	90ns, 5V, I-temp. ....	<b>4.39</b>	<b>4.15</b>	<b>4.10</b>
242659CM	29F040-120	DIP-32	512k x 8	120ns, 5V .....	<b>8.95</b>	<b>8.65</b>	<b>8.25</b>
242667CM	29F040-90	DIP-32	512k x 8	90ns, 5V .....	<b>9.05</b>	<b>8.60</b>	<b>8.15</b>
375996CM	AT29LV040A-15JC	PLCC-32	512k x 8	150ns, 3V .....	<b>4.39</b>	<b>4.20</b>	<b>4.10</b>
375911CM	AT49BV040A-70JL	PLCC-32	512k x 8	70ns, 2.7V, I-temp. ....	<b>2.05</b>	<b>2.03</b>	<b>2.01</b>
277270CM	29F800-120	TSOP-48	1M x 8	120ns, 5V .....	<b>3.45</b>	<b>3.14</b>	<b>2.85</b>
277288CM	29F800-120	TSOP-48	1M x 8	120ns, 5V .....	<b>3.25</b>	<b>3.12</b>	<b>2.95</b>
277448CM	28F128-150	TSOP-56	16M x 8	150ns, 2.7V .....	<b>21.09</b>	<b>19.00</b>	<b>17.10</b>

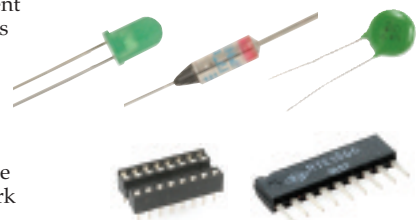
## Legacy DRAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
41339CM	4116-15	DIP-16	16k x 1	150ns (MM5290J-1R) .....	<b>\$ .99</b>	<b>\$ .84</b>	<b>(.63)</b>
41662CM	4164-150	DIP-16	64k x 1	150ns (MCM6665-15) .....	<b>.59</b>	<b>.53</b>	<b>.48</b>
41574CM	41464-10	DIP-18	64k x 4	100ns (HY53C464S-10) .....	<b>1.69</b>	<b>1.65</b>	<b>1.59</b>
41398CM	41256-120	DIP-16	256k x 1	120ns (MB81256-12) .....	<b>.73</b>	<b>.62</b>	<b>.47</b>
42315CM	514256P-80	DIP-20	256k x 4	80ns (UPD424256-80) .....	<b>2.49</b>	<b>2.25</b>	<b>2.05</b>
93374CM	514256P-70	DIP-20	256k x 4	70ns (TC514256P-70) .....	<b>2.79</b>	<b>2.49</b>	<b>2.19</b>
128688CM	HM514260	SOJ	256k x 16	70ns .....	<b>3.39</b>	<b>3.05</b>	<b>2.75</b>
42919CM	511000P-10	DIP-18	1M x 1	100ns (M5M4C1000-10) .....	<b>2.59</b>	<b>2.33</b>	<b>2.10</b>

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## Static RAM

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
38931CM	2111-1	DIP-18	256 x 4	1-Kbit, 5V, 500ns	\$1.69	\$1.55	\$1.35
42198CM	5101	DIP-22	256 x 4	1-Kbit, 5V, 450ns	7.99	7.19	6.49
38957CM	2114N	DIP-18	1k x 4	4-Kbit, 5V, 450ns	2.29	1.99	1.79
43238CM	6514	DIP-18	1k x 4	4-Kbit, 5V, 300ns	3.95	3.65	3.35
38973CM	2114N-2	DIP-18	1k x 4	4-Kbit, 5V, 200ns	2.49	2.09	1.89
38981CM	2114N-2L	DIP-18	1k x 4	4-Kbit, 5V, 450ns, LP	2.25	2.05	1.85
243475CM	MBM104174A-10	DIP-24	1k x 4	4-Kbit, 5V, 10ns, Asynchronous	.65	.55	.41
392243CM	CY7C131-55JC	PLCC-52	1k x 8	8-Kbit, 5V, 55ns	5.75	4.64	3.96
392462CM	CY7C425V-15ASC	STOFP-64	1k x 18	18-Kbit, 3.3V, 15ns Synch. FIFO	17.79	17.59	17.43
38746CM	2016-20	DIP-24	2k x 8	16-Kbit, 5V, 200ns	.80	.73	.66
114260CM	DS1220Y-150	DIP-24	2k x 8	16-Kbit, 5V, 150ns, NV SRAM	11.95	10.95	9.85
25911CM	MK48Z02B-15	DIP-24	2k x 8	16-Kbit, 5V, 150ns	7.25	6.70	6.35
42809CM	6116P-3	DIP-24	2k x 8	16-Kbit, 5V, 150ns	1.49	1.29	1.09
42753CM	6116LP-3	DIP-24	2k x 8	16-Kbit, 5V, 150ns, LP	1.95	1.75	1.59
38738CM	2016-12	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.25	1.13	.85
42796CM	6116P-2	DIP-24	2k x 8	16-Kbit, 5V, 120ns	1.59	1.39	1.29
42788CM	6116P-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns	1.69	1.49	1.39
42737CM	6116LP-1	DIP-24	2k x 8	16-Kbit, 5V, 100ns, LP	1.99	1.79	1.65
242675CM	6116-70	DIP-24	2k x 8	16-Kbit, 5V, 70ns	2.09	1.99	1.89
242712CM	CY7C128A-15	DIP-24	2k x 8	16-Kbit, 5V, 15ns, Async.	4.15	3.35	2.65
242704CM	CY7C128A-25	DIP-24	2k x 8	16-Kbit, 5V, 25ns, Async.	1.79	1.61	1.45
242691CM	CY7C128A-35	DIP-24	2k x 8	16-Kbit, 5V, 35ns, Async.	\$3.25	3.65	2.95
242683CM	CY7C128A-45	DIP-24	2k x 8	16-Kbit, 5V, 45ns, Async.	4.25	3.85	3.50
392446CM	CY7C4235V-15ASC	STOFP-64	2k x 18	36-Kbit, 3.3V, 15ns, Synch. FIFO	16.59	16.24	16.08
242721CM	6264-55	DIP-28	8k x 8	64-Kbit, 5V, 55ns, Async.	2.65	2.25	1.68
392294CM	CY6264-70SNC	SOIC-28	8k x 8	64-Kbit, 5V, 70ns	3.09	2.51	2.00
85121CM	6264LP-70	DIP-28	8k x 8	64-Kbit, 5V, 70ns, LP	3.39	3.05	2.75
42884CM	6264LP-10	DIP-28	8k x 8	64-Kbit, 5V, 100ns, LP	2.75	2.49	2.25
42921CM	6264P-10	DIP-28	8k x 8	64-Kbit, 5V, 100ns	2.59	2.05	1.99
42892CM	6264LP-12	DIP-28	8k x 8	64-Kbit, 5V, 120ns, LP	2.79	2.49	2.19
42930CM	6264P-12	DIP-28	8k x 8	64-Kbit, 5V, 120ns	2.65	2.39	2.15
114278CM	DS1225AB-150	DIP-28	8k x 8	64-Kbit, 5V, 150ns, NV SRAM	15.99	12.65	9.89
114307CM	DS1225Y-200	DIP-28	8k x 8	64-Kbit, 5V, 200ns, NV SRAM	15.95	14.49	11.65
242350CM	7C185-20	DIP-28	8k x 8	64-Kbit, 5V, 20ns Async.	2.89	2.29	1.79
242341CM	CY7C185-25	DIP-28	8k x 8	64-Kbit, 5V, 25ns Async.	2.59	2.05	1.79
242333CM	CY7C185-35	DIP-28	8k x 8	64-Kbit, 5V, 35ns Async.	3.29	2.63	1.99
242499CM	DS1230Y-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, NV SRAM	19.85	15.35	12.75
177113CM	DS1230Y-100	DIP-28	32k x 8	256-Kbit, 5V, 100ns, NV SRAM	15.75	14.60	11.75
114323CM	DS1230Y-150	DIP-28	32k x 8	256-Kbit, 5V, 150ns, NV SRAM	20.25	17.10	10.25
41970CM	43256-10L	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	5.49	4.99	4.49
41988CM	43256-12L	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	4.99	4.49	4.09
242376CM	CY7C199P-35	DIP-28	32k x 8	256-Kbit, 5V, 35ns, LP Async.	1.99	1.59	1.19
75037CM	UM61M256K-15	DIP-28	32k x 8	256-Kbit, 5V, 15ns	3.39	2.99	2.69
279865CM	62256S-12	SOJ-28	32k x 8	256-Kbit, 5V, 120ns	1.49	1.21	1.05
279857CM	62256S-15	SOJ-28	32k x 8	256-Kbit, 5V, 150ns	1.49	1.27	.99
82472CM	62256LP-70	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	4.95	4.50	4.05
391793CM	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns	2.85	2.30	1.80
391814CM	CY62256L-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns	2.55	2.05	1.65
391822CM	CY62256L-70PC	DIP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80
391890CM	CY62256L-70SNC	SOIC-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80
392008CM	CY62256VLL-70SNC	SOIC-28	32k x 8	256-Kbit, 3.3V, 70ns, LP	2.39	1.94	1.52
391945CM	CY62256L-70ZC	TSSOP-28	32k x 8	256-Kbit, 5V, 70ns, LP	2.85	2.30	1.80
391865CM	CY62256VLL-70ZC	TSSOP-28	32k x 8	256-Kbit, 3V, 70ns, LP	2.05	1.65	1.40
279814CM	62256S-70	SOJ-28	32k x 8	256-Kbit, 5V, 70ns	1.99	1.79	1.61
42876CM	62256LP-85	DIP-28	32k x 8	256-Kbit, 5V, 85ns, LP	3.09	2.49	1.99
42833CM	62256LP-10	DIP-28	32k x 8	256-Kbit, 5V, 100ns, LP	3.75	3.20	2.40
42850CM	62256LP-12	DIP-28	32k x 8	256-Kbit, 5V, 120ns, LP	3.89	3.49	3.19
391857CM	CY7C1399B-12VC	SOJ-28	32k x 8	256-Kbit, 3.3V, 12ns, Async.	1.55	1.50	1.48
279849CM	CY7C199-20V	SOJ-28	32k x 8	256-Kbit, 5V, 20ns, Async.	1.99	1.79	1.61
279831CM	CY7C199-25V	SOJ-28	32k x 8	256-Kbit, 5V, 25ns, Async.	1.65	1.39	1.05
279822CM	CY7C199-35V	SOJ-28	32k x 8	256-Kbit, 5V, 35ns, Async.	1.40	1.15	1.05
392382CM	CY7C464A-15JC	PLCC-32	32k x 9	256-Kbit, 5V, 15ns, Async. FIFO	.27	26.82	26.55

♣ Pull = Extra Savings

## Static RAM (Continued)

Part No.	Cross Ref.	Pkg.	Config.	Description	1	10	100
392067CM	CY7C1021CV33-10ZC	TSSOP-44	64k x 16	1-Mbit, 3.3V, 10ns, Async.	\$2.59	\$2.10	\$1.90
391873CM	CY7C1021CV33-12VC	SOJ-44	64k x 16	1-Mbit, 3.3V, 12ns, Async.	2.35	2.05	1.90
391929CM	CY7C1021BV33-15ZC	TSSOP-44	64k x 16	1-Mbit, 3.3V, 15ns, LP Async.	3.29	2.95	2.80
392411CM	CY7C1021CV33-15ZC	TSSOP-44	64k x 16	1-Mbit, 3.3V, 15ns, Async.	2.35	2.05	1.91
391831CM	CY62128BLL-70SC	SOIC-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.45	2.05	1.85
391996CM	CY62128BLL-70ZC	TSSOP-32	128k x 8	1-Mbit, 5V, 70ns, LP	2.85	2.30	2.10
279873CM	628128S-70	SOJ-32	128k x 8	1-Mbit, 5V, 70ns	2.49	2.19	1.89
131810CM	628128LP-70	DIP-32	128k x 8	1-Mbit, 5V, 70ns, LP	8.99	7.39	6.69
103982CM	628128LP-85	DIP-32	128k x 8	1-Mbit, 5V, 85ns, LP	8.49	7.22	5.41
279911CM	CY7C109B-12V	SOJ-32	128k x 8	1-Mbit, 5V, 12ns, Async.	2.99	2.54	2.28
391902CM	CY7C109CV33-12VC	SOJ-32	128k x 8	1-Mbit, 3.3V, 12ns, Async.	2.55	2.05	1.90
392251CM	CY7C1009B-15VC	SOJ-32	128k x 8	1-Mbit, 5V, 15ns, Async.	3.55	2.86	2.25
280014CM	625616S-70	SOJ-44	256k x 16	70ns	7.39	6.28	4.71
392358CM	CY7C1041CV33-12ZC	TSSOP-44	256k x 16	1-Mbit, 3.3V, 12ns, Async.	4.35	4.00	3.70
280031CM	CY7C1041B-15V	SOJ-44	256k x 16	4-Mbit, 5V, 15ns, Async.	8.09	7.09	6.99
392198CM	CY7C1041B-15ZC	TSSOP-44	256k x 16	4-Mbit, 5V, 15ns, Async.	4.69	4.59	4.49
157358CM	628512LP-70	DIP-32	512k x 8	4-Mbit, 5V, 70ns, LP	18.99	16.99	16.19
280049CM	628512S-70	SOJ-32	512k x 8	4-Mbit, 5V, 20ns, Async.	3.45	3.25	3.05
280065CM	CY7C1049B-20V	SOJ-36	512k x 8	4-Mbit, 5V, 70ns, Async.	9.39	8.56	7.79

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## PALs and GALs

Part No.	Cross Ref.	Pkg.	Description	1	10	100
27748CM	N82S100	DIP-28	16 x 48 x 8 field-prog. logic array, 3-st.	\$14.95	\$13.49	\$12.15
28020CM	PAL16L8	DIP-20	Octal 16-input AND-OR-INVERT gate array	2.25	1.75	1.31
652615CM	16V8-7	DIP-20	7ns 64 x 32 AND array	3.25	2.49	2.25
88399CM	16V8-10	DIP-20	10ns 64 x 32 AND array	2.59	2.35	2.10
37452CM	16V8-15	DIP-20	15ns 64 x 32 AND array	1.39	1.25	1.12
37461CM	16V8-25	DIP-20	25ns 64 x 32 AND array	1.25	1.09	.99
105953CM	18CV8P-25	DIP-20	25ns	2.25	1.91	1.43
88292CM	20V8-10	DIP-24	10ns 64 x 40 AND array	1.85	1.60	1.43
38658CM	20V8-15	DIP-24	15ns 64 x 40 AND array	1.55	1.25	1.15
38666CM	20V8-25	DIP-24	25ns 64 x 40 AND array	1.69	1.49	1.39
235352CM	20VP8-25LJ	PLCC-28	25ns 64 x 40 AND array	\$3.25	1.35	1.22
105996CM	22CV10AP-25	DIP-24	25ns	2.59	2.35	2.05
123801CM	22V10-10	DIP-24	10ns 132 x 44 AND array	5.49	4.99	4.49
39159CM	22V10-15	DIP-24	15ns 132 x 44 AND array	4.49	3.95	3.55
39167CM	22V10-25	DIP-24	25ns 132 x 44 AND array	3.99	3.49	3.09

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

\* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

\*\* Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

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Part No.	Product No.*	Pkg.	Speed	Icc	Inputs	I/O	Vcc	Temp.†	1	10	100
312995CM	16CV8P-25	DIP-20	25ns	12mA	10	8	5	C	\$1.19	\$0.82	\$0.74
105953CM	18CV8P-25	DIP-20	25ns	25mA	10	8	5	C	2.25	1.91	1.43
314886CM	22CV10AP-25	DIP-24	25ns	18mA	12	10	5	I	2.85	2.45	1.99
315205CM	22CV10AP-10L	DIP-24	10ns	50mA	12	10	5	C	3.49	3.15	2.04
315125CM	22CV10AP-15L	DIP-24	15ns	35mA	12	10	5	C	2.95	2.637	1.97
105996CM	22CV10AP-25	DIP-24	25ns	5µA	12	10	5	C	2.59	2.35	2.05
315361CM	22CV10AP-7	DIP-24	7ns	50mA	12	10	5	C	4.29	3.19	2.45

† I = Industrial Temp. range: -40°C to +85°C; C = Commercial Temp. range: 0 to +70°C

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74AC(T)XXX Advanced CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
AC(T)	DIP	SN74AC(T)XXN	74AC(T)XXXXN	74AC(T)XXXXPC	MC74AC(T)XXN	74AC(T)XXXB	74AC(T)XXN	TC74AC(T)XXXP
	DIP	CD74AC(T)XXE	74AC(T)XXXXN	74AC(T)XXXXPC	MC74AC(T)XXN	74AC(T)XXXB	74AC(T)XXN	TC74AC(T)XXXP
	SOIC	SN74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXD	TC74AC(T)XXXFN/FW
	SOIC	CD74AC(T)XXM	74AC(T)XXXM	74AC(T)XXXSC	MC74AC(T)XXD/DW	74AC(T)XXXM	74AC(T)XXD	TC74AC(T)XXXFN/FW

74AC Series – The AC family offers CMOS inputs and CMOS outputs.

DIP  SOIC 

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Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74AC00	14	Quad 2-input NAND	74AC74	14	Dual D Flip-Flop	74AC161	16	4b Cntr., Async Clr.	74AC245	20	Octal Transceiver	74AC399	16	Quad 2-Port Reg.
74AC02	14	Quad 2-input NOR	74AC86	14	Quad 2-input OR	74AC163	16	4b Cntr., Sync Clr.	74AC251	16	8:1 Mux, 3-State	74AC521	20	8b ID Comparator
74AC04	14	Hex Inverter	74AC109	16	Dual JK Flip-Flop	74AC169	16	4b Bidir. Counter	74AC253	16	Dual 4:1 Mux, 3-St.	74AC540	20	Octal Buff. Invert.
74AC08	14	Quad 2-input AND	74AC125	16	Quad Buffer, 3-st.	74AC174	16	Hex D Flip-Flop	74AC257	16	Quad 2:1 Mux, 3-St.	74AC541	20	Octal Buff. Non-Inv.
74AC10	14	Triple 3-input NAND	74AC138	16	3:8 Line Decoder	74AC175	16	Quad D Flip-Flop	74AC273	20	Oct D FF, Edge-Trig.	74AC573	20	Octal D Latch, 3-St.
74AC11	14	Triple 3-input AND	74AC139	16	Dual 2:4 Decoder	74AC191	16	4b Bidir. Counter	74AC299	20	8-in Shift/Stor. Reg.	74AC574	20	Oct D FF, Edge-Trig.
74AC14	14	Hex Inverter Schmitt	74AC151	16	8:1 Selector/Mux.	74AC240	20	Octal Buff., Invert.	74AC373	20	Octal D Latch, 3-St.			
74AC20	14	Dual 4-input NAND	74AC153	16	Dual 4:8 Mux.	74AC241	20	Octal Buff., Non-Inv.	74AC374	20	Oct D FF, Edge-Trig.			
74AC32	14	Quad 2-input OR	74AC157	16	Quad 2:1 Mux.	74AC244	20	Octal Buff., 3-St.	74AC377	20	Oct D FF w/ Clk En.			

DIP Package					* Minimum order 10 pieces				
Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74AC00N	211801CM	.....	* .167	.125	SN74AC00N	256858CM	..	.21	.182 .136
74AC02N	211810CM	....20	.166	.125	CD74AC02E	256891CM	....	.21	.182 .137
74AC04N	211828CM	....28	.241	.168	SN74AC04N	256903CM	....	.31	.265 .185
74AC08N	211836CM	....25	.244	.176	SN74AC08N	256911CM	....	.27	.234 .176
74AC10N	238887CM	....	* .117	.105	SN74AC10N	256920CM	....	.27	.227 .17
74AC11N	238895CM	....37	.31	.233	SN74AC11N	256938CM	....	.40	.335 .252
74AC14N	211844CM	....21	.18	.135	SN74AC14N	261366CM	....	.23	.21 .20
74AC20N	238836CM	....	* .185	.139	CD74AC20N	261382CM	....	.22	.201 .152
74AC32N	211852CM	....23	.199	.149	SN74AC32N	261391CM	....	.25	.219 .164
74AC74N	211861CM	....23	.206	.154	SN74AC74N	261403CM	....	.25	.227 .17
74AC86N	211879CM	....	* .16	.12	SN74AC86N	261454CM	....	.20	.182 .136
74AC109N	238908CM	....34	.29	.232	CD74AC109E	261462CM	....	.37	.313 .235
74AC125N	238916CM	....33	.281	.211					
74AC138N	211887CM	....33	.28	.21	CD74AC138E	261471CM	....	.36	.308 .231
74AC139N	238730CM	....20	.184	.138	CD74AC139E	261500CM	....	.22	.201 .15
74AC151N	238748CM	....23	.206	.154	CD74AC151E	261526CM	....	.38	.333 .249
74AC153N	238756CM	....35	.30	.225	CD74AC153E	261534CM	....	.38	.324 .243
74AC157N	238764CM	....43	.32	.24	CD74AC157E	261542CM	....	.47	.36 .27
74AC161N	238772CM	....38	.324	.242	CD74AC161E	261551CM	....	.42	.356 .267
74AC163N	238781CM	....39	.33	.245	CD74AC163E	261585CM	....	.42	.356 .266
74AC169N	238799CM	....93	.84	.77					
74AC174N	238801CM	....39	.33	.248	CD74AC174E	261593CM	....	.42	.356 .268
74AC175N	238810CM	....39	.33	.248					
74AC191N	238828CM	....89	.67	.61					
74AC240N	211895CM	....35	.277	.251	SN74AC240N	261614CM	....	.38	.287 .26
74AC241N	238844CM	....	* .144	.13	SN74AC241N	261729CM	....	.28	.258 .221
74AC244N	211908CM	....21	.18	.13	SN74AC244N	261796CM	....	.22	.218 .163
74AC245N	211916CM	....33	.28	.21	SN74AC245N	261817CM	....	.39	.315 .236
74AC251N	238852CM	....35	.30	.225					
74AC253N	238861CM	....33	.28	.21					
74AC257N	238879CM	....38	.32	.24	CD74AC257E	261956CM	....	.41	.38 .276
74AC273N	211924CM	....36	.31	.233	CD74AC273E	261964CM	....	.39	.335 .252
74AC299N	238924CM	....52	.44	.36					
74AC373N	211932CM	....41	.35	.263	SN74AC373N	261981CM	....	.44	.378 .284
74AC374N	211941CM	....32	.27	.203	SN74AC374N	262035CM	....	.35	.292 .225
74AC377N	242763CM	....30	.267	.24					
74AC399N	238941CM	....1.49	1.34	1.21					
74AC521N	238959CM	....44	.37	.278					
74AC540N	238967CM	....39	.348	.261					
74AC541N	238975CM	....50	.44	.33	CD74AC541E	262051CM	....	.54	.478 .359
74AC573N	238983CM	....22	.194	.175	SN74AC573N	262086CM	....	.48	.40 .302
74AC574N	238991CM	....20	.172	.155	SN74AC574N	262094CM	....	.35	.292 .225

SOIC Package					* Minimum order 10 pieces				
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74AC00M	263871CM	.....	* .147	.11	SN74AC00D	263880CM	.....	* .16	.122
74AC02M	264081CM	.....	* .116	.087	CD74AC02M	264090CM	....	.26	.127 .11
74AC04M	264102CM	.....	* .149	.112	SN74AC04D	264111CM	.....	* .163	.122
74AC08M	264129CM	.....	* .167	.125	SN74AC08D	264137CM	....	.26	.182 .136
74AC10M	264145CM	....20	.177	.132	SN74AC10D	264153CM	....	.22	.194 .145
74AC11M	264161CM	....24	.164	.123	SN74AC11D	264170CM	....	.26	.179 .134
74AC14M	264196CM	.....	* .166	.124	SN74AC14D	264209CM	....	.20	.182 .136
74AC20M	264225CM	....24	.21	.157	CD74AC20M	264233CM	....	.26	.23 .172
74AC32M	264241CM	.....	* .11	.082	SN74AC32D	264268CM	.....	* .127	.095
74AC74M	264276CM	....25	.194	.146	SN74AC74D	264284CM	....	.28	.212 .159
74AC86M	264292CM	.....	* .149	.111	SN74AC86D	264305CM	....	.20	.17 .124
74AC109M	264313CM	....24	.199	.149					
74AC125M	264321CM	....24	.199	.149					
74AC138M	264348CM	....28	.236	.177	CD74AC138M	264364CM	....	.31	.259 .194
74AC139M	264495CM	....22	.199	.149	CD74AC139M	264508CM	....	.24	.218 .203
74AC151M	264516CM	....28	.224	.168					
74AC153M	264524CM	....26	.224	.168	CD74AC153M	264532CM	....	.29	.261 .249
74AC157M	264541CM	.....	* .164	.123	CD74AC157M	264559CM	.....	* .179	.134
74AC161M	264567CM	....22	.208	.155	CD74AC161M	264575CM	....	.24	.229 .17
74AC163M	264583CM	....29	.249	.186	CD74AC163M	264591CM	....	.32	.273 .26
74AC169M	265818CM	....30	.249	.186					
74AC174M	264840CM	....29	.251	.187	CD74AC174M	264858CM	....	.32	.273 .204
74AC175M	264866CM	.....	* .14	.122	CD74AC175M	264874CM	....	.27	.246 .221
74AC191M	264903CM	....69	.621	.60					
74AC240M	264938CM	....28	.236	.177	SN74AC240DW	264971CM	....	.31	.259 .194
74AC241M	265535CM	.....	* .14	.125	SN74AC241DW	265543CM	....	.25	.223 .201
74AC244M	265551CM	....28	.24	.179	SN74AC244DW	265560CM	....	.31	.261 .195
74AC245M	265586CM	....37	.33	.247	SN74AC245DW	265598CM	....	.41	.374 .281
74AC251M	265607CM	....28	.236	.177	CD74AC251M	265615CM	....	.31	.259 .239
74AC253M	265623CM	.....	* .164	.123	CD74AC253M	265640CM	....	.29	.265 .239
74AC257M	265658CM	....26	.224	.168	CD74AC257M	265666CM	....	.30	.245 .184
74AC273M	265674CM	....25	.19	.143	CD74AC273M	265682CM	....	.27	.21 .156
74AC299M	265826CM	....85	.765	.689					
74AC373M	265891CM	....30	.265	.199	SN74AC373DW	265703CM	....	.32	.291 .245
74AC374M	265711CM	.....	* .182	.136	SN74AC374DW	265720CM	....	.28	.247 .223
74AC377M	265851CM	.....	* .146	.111					
74AC521M	265869CM	....62	.56	.50					
74AC540M	265738CM	....41	.348	.261	CD74AC540M	265746CM	....	.45	.382 .286
74AC541M	265754CM	....40	.37	.277	CD74AC541M	265762CM	....	.44	.405 .304
74AC573M	265771CM	....41	.33	.247	SN74AC573DW	265789CM	....	.45	.36 .27
74AC574M	265797CM	....37	.341	.256	SN74AC574DW	265800CM	....	.41	.374 .281

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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## Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74ACT00	14	Quad 2-input NAND	74ACT74	14	Dual D Flip-Flop	74ACT161	16	4b Cntr., Async Clr.	74ACT245	20	Octal Transceiver	74ACT533	20	Octal Transp. D Latch
74ACT02	14	Quad 2-input NOR	74ACT86	14	Quad 2-input OR	74ACT163	16	4b Cntr., Sync Clr.	74ACT251	16	8:1 Mux, 3-State	74ACT541	20	Octal Buff. Non-Inv.
74ACT04	14	Hex Inverter	74ACT125	14	Quad Buffer, 3-St.	74ACT174	16	Hex D Flip-Flop	74ACT257	16	Quad 2:1 Mux, 3-St.	74ACT573	20	Octal D Latch, 3-St.
74ACT08	14	Quad 2-input AND	74ACT138	16	3:8 Line Decoder	74ACT175	16	Quad D Flip-Flop	74ACT273	20	Oct D FF, Edge-Trig.	74ACT574	20	Oct D FF, Edge-Trig.
74ACT10	14	Triple 2-input NAND	74ACT139	16	Dual 2:4 Decoder	74ACT240	20	Octal Buff., Invert.	74ACT373	20	Octal D Latch, 3-St.	74ACT715	20	Prog. Video Sync Gen.
74ACT14	14	Hex Inverter Schmitt	74ACT151	16	8:1 Selector/Mux.	74ACT241	20	Octal Buff., Non-Inv.	74ACT374	20	Oct D FF, Edge-Trig.			
74ACT32	14	Quad 2-input OR	74ACT157	16	Quad 2:1 Mux.	74ACT244	20	Octal Buff., 3-St.	74ACT521	20	8b ID Comparator			

## DIP Package

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74ACT00N	211959CM	\$.25	\$.21	\$.156	SN74ACT00N	262326CM	\$.28	\$.24	\$.18
74ACT02N	211967CM	\$.27	.23	.173	CD74ACT02E	262334CM	\$.29	.248	.187
74ACT04N	211975CM	\$.25	.199	.149	SN74ACT04N	262342CM	\$.28	.22	.165
74ACT08N	211983CM	\$.20	.17	.128	SN74ACT08N	262351CM	\$.22	.20	.15
74ACT10N	239046CM	\$.20	.17	.127	SN74ACT10N	262369CM	\$.22	.20	.15
74ACT14N	211991CM	\$.26	.22	.165	SN74ACT14N	262377CM	\$.28	.238	.178
74ACT32N	212003CM	\$.117	.105		SN74ACT32N	262465CM	\$.27	.227	.171
74ACT74N	212011CM	\$.25	.21	.158	SN74ACT74N	262473CM	\$.28	.24	.18
74ACT86N	212020CM	\$.20	.184	.147	SN74ACT86N	262481CM	\$.28	.263	.197
74ACT125N	239003CM	\$.32	.27	.20					
74ACT138N	212038CM	\$.25	.21	.158	CD74ACT138E	262490CM	\$.27	.227	.171
74ACT139N	239011CM	\$.51	.40	.30	CD74ACT139E	262502CM	\$.55	.432	.324
74ACT151N	239020CM	\$.48	.41	.31					
74ACT157N	239038CM	\$.21	.18	.135	CD74ACT157E	262529CM	\$.25	.23	.225
74ACT161N	239071CM	\$.39	.33	.242	CD74ACT161E	262676CM	\$.43	.354	.266
74ACT163N	239062CM	\$.47	.391	.293	CD74ACT163E	262684CM	\$.51	.425	.319
74ACT174N	239054CM	\$.29	.272	.204	CD74ACT174E	262692CM	\$.32	.298	.239
74ACT175N	239089CM	\$.55	.47	.35	CD74ACT175E	262799CM	\$.59	.50	.375
74ACT240N	212046CM	\$.30	.26	.218	CD74ACT240N	262828CM	\$.32	.291	.218
74ACT241N	239097CM	\$.22	.20	.18	SN74ACT241N	263038CM	\$.50	.382	.286
74ACT244N	212054CM	\$.51	.43	.32	SN74ACT244N	263046CM	\$.55	.464	.346
74ACT245N	212062CM	\$.36	.31	.23	SN74ACT245N	263062CM	\$.40	.354	.266
74ACT251N	239100CM	\$.25	.222	.20					
74ACT257N	239126CM	\$.15	.135		CD74ACT257E	263097CM	\$.37	.30	.225
74ACT273N	212071CM	\$.32	.291	.218	CD74ACT273E	263100CM	\$.35	.319	.239
74ACT373N	212089CM	\$.24	.217	.195	SN74ACT373N	263177CM	\$.54	.443	.333
74ACT374N	212097CM	\$.36	.31	.23	SN74ACT374N	263193CM	\$.39	.335	.248
74ACT521N	235230CM	\$.53	.45	.34					
74ACT533N	235248CM	\$.44	.40	.36	SN74ACT533N	263425CM	\$.47	.432	.388
74ACT541N	235264CM	\$.45	.34	.256	CD74ACT541E	263441CM	\$.49	.367	.275
74ACT573N	235272CM	\$.35	.297	.223	SN74ACT573	263468CM	\$.57	.509	.382
74ACT574N	235281CM	\$.53	.45	.338	SN74ACT574N	263476CM	\$.57	.486	.365
74ACT715N	235299CM	4.35	3.90	3.51					

† Note: TI now owns GE, Harris &amp; RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

## TTL Logic Data Book

## Texas Instruments

Contains specifications and technical information on a broad line of TTL integrated circuits including Schottky TTL circuits. (1240 pages, 1988)

• Size: 6.0" x 8.5" • Weight: 2.6 lbs.

Part No.	Description	1	10
88225CM	TTL Logic Data Book	\$34.95	\$31.49



## IC Test Clip Series

- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts
- Color: white



Part No.	Cross Ref.	Description	1	10	25
22103CM	JTC16	16-pin (for 8, 14 and 16-pin ICs)	\$6.95	\$6.25	\$5.59
22120CM	JTC20	20-pin (for 18 and 20-pin ICs)	8.95	6.50	5.35
22162CM	JTC28	28-pin (for 24 and 28-pin ICs)	10.95	9.95	8.95
22189CM	JTC40	40-pin (for 32 and 40-pin ICs)	11.95	11.35	10.75

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Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

## 74AHC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba	Samsung
AHC(T)	DIP	SN74AHC(T)XXXN	74AHC(T)XXXN	MM74VHC(T)XXXN	—	—	—	—	KS74AHC(T)XXXN
	SOIC	SN74AHC(T)XXXD/DW	74AHC(T)XXXM	MM74VHC(T)XXXM/WM	MC74VHC(T)XXXD	M74VHC(T)XXXM	74AHC(T)XXXD	TC74VHC(T)XXXFN/FW	—

### 74AHC Series – The AHC family offers CMOS inputs and CMOS outputs

AHC(T) = VHC(T)

DIP



SOIC



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### Texas Instruments Products, Save Up To 20%!

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-20% off TI and competitive prices. And if your project doesn't require a specific brand of IC, but can be one of five or six major brands, select from the functionally equivalent Jameco Value Offering column, to save up to 30%!



### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74AHC00	14	Quad 2-input NAND	74AHC14	14	Hex Inverter Schmitt	74AHC138	16	3:8 Line Decoder	74AHC244	20	Octal Buff., 3-St.	74AHC541	20	Octal Buff. Non-Inv.
74AHC02	14	Quad 2-input NOR	74AHC32	14	Quad 2-input OR	74AHC139	16	Dual 2:4 Decoder	74AHC245	20	Octal Transceiver	74AHC574	20	Oct D FF, Edge-Trig.
74AHC04	14	Hex Inverter	74AHC74	14	Dual D Flip-Flop	74AHC157	16	Quad 2:1 Mux.	74AHC373	20	Octal D Latch, 3-St.			
74AHC08	14	Quad 2-input AND	74AHC86	14	Quad 2-input OR	74AHC240	20	Octal Buff., Invert.	74AHC374	20	Oct D FF, Edge-Trig.			

### DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74AHC00N	214092CM	..24	..20	..15	SN74AHC00N	287726CM	...36	..30	..21
74AHC02N	214105CM	..24	..20	..15	SN74AHC02N	287742CM	....26	..216	..162
74AHC04N	214113CM	..24	..216	..162	SN74AHC04N	287751CM	....28	..238	..162
74AHC08N	214121CM	..23	..20	..15	SN74AHC08N	287777CM	....25	..216	..162
74AHC14N	214130CM	..43	..36	..27	SN74AHC14N	288171CM	....46	..389	..292
74AHC32N	214148CM	..43	..36	..27	SN74AHC32N	288198CM	....46	..324	..292
74AHC74N	214156CM	..24	..22	..18	SN74AHC74N	288201CM	....30	..29	..21
74AHC86N	214164CM	..23	..20	..15	SN74AHC86N	288219CM	....25	..216	..162
74AHC138N	243213CM	..25	..244	..183	SN74AHC138N	288286CM	....46	..37	..26
74AHC139N	243221CM	..26	..244	..224	SN74AHC139N	288294CM	....49	..41	..32
74AHC157N	243230CM	..40	..324	..286	SN74AHC157N	288382CM	....43	..35	..326
74AHC240N	214172CM	..44	..35	..263	SN74AHC240N	288315CM	....48	..378	..284
74AHC244N	214181CM	..33	..27	..20	SN74AHC244N	288323CM	....36	..291	..221
74AHC245N	214199CM	..33	..28	..21	SN74AHC245N	288331CM	....36	..302	..227
74AHC373N	214201CM	..33	..266	..20	SN74AHC373N	288340CM	....48	..40	..30
74AHC374N	214210CM	..44	..374	..281	SN74AHC374N	288358CM	....48	..404	..303
74AHC541N	214228CM	..40	..34	..255	SN74AHC541N	288366CM	....43	..367	..275
74AHC574N	214236CM	..40	..332	..249	SN74AHC574N	288374CM	....58	..448	..337

### SOIC Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74AHC00M	289650CM	..30	..253	..176	SN74AHC00D	289641CM	..32	..27	..19
74AHC02M	289676CM	....30	..291	..202	SN74AHC02D	289668CM	....32	..31	..22
74AHC04M	289748CM	....30	..291	..202	SN74AHC04D	289721CM	....32	..31	..22
74AHC08M	289772CM	....36	..291	..202	SN74AHC08D	289764CM	....40	..32	..22
74AHC14M	289801CM	....26	..224	..159	SN74AHC14D	289799CM	....29	..25	..18
74AHC32M	289941CM	....35	..291	..202	SN74AHC32D	289932CM	....39	..319	..221
74AHC74M	289967CM	....36	..291	..202	SN74AHC74D	289959CM	....40	..32	..22
74AHC86M	289991CM	....20	..158	..143	SN74AHC86D	289983CM	....22	..173	..156
74AHC138M	290044CM	....39	..34	..277	SN74AHC138D	290036CM	....42	..373	..304
74AHC139M	290079CM	....44	..332	..277	SN74AHC139D	290061CM	....48	..38	..30
74AHC240M	290116CM	....46	..349	..269	SN74AHC240DW	290108CM	....50	..38	..29
74AHC244M	290183CM	....37	..299	..227	SN74AHC244DW	290175CM	....41	..33	..25
74AHC245M	290204CM	....39	..299	..227	SN74AHC245DW	290191CM	....43	..33	..25
74AHC373M	290239CM	....39	..299	..227	SN74AHC373DW	290212CM	....43	..33	..25
74AHC374M	290255CM	....26	..216	..193	SN74AHC374DW	290247CM	....29	..237	..212
74AHC541M	290280CM	....46	..349	..265	SN74AHC541DW	290271CM	....50	..38	..29
74AHC574M	290319CM	....26	..216	..203	SN74AHC574DW	290298CM	....29	..237	..213

### 74AHCT Series – The AHCT family offers TTL inputs with CMOS outputs.

AHC(T) = VHC(T)

DIP



SOIC



### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74AHCT00	14	Quad 2-input NAND	74AHCT08	14	Quad 2-input AND	74AHCT86	14	Quad 2-input OR	74AHCT240	20	Octal Buff., Invert.
74AHCT02	14	Quad 2-input NOR	74AHCT14	14	Hex Inverter Schmitt	74AHCT138	16	3:8 Line Decoder	74AHCT244	20	Octal Buff., 3-St.
74AHCT04	14	Hex Inverter	74AHCT74	14	Dual D Flip-Flop	74AHCT139	16	Dual 2:4 Decoder	74AHCT245	20	Octal Transceiver

### DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74AHCT00N	43844CM	..21	..15	..10	SN74AHCT00N	288454CM	...23	..15	..13
74AHCT02N	43852CM	....32	..27	..20	SN74AHCT02N	288489CM	....36	..30	..21
74AHCT04N	43861CM	....30	..266	..185	SN74AHCT04N	288497CM	....34	..30	..21
74AHCT08N	63431CM	....30	..26	..19	SN74AHCT08N	288569CM	....32	..291	..202
74AHCT14N	63458CM	....32	..27	..19	SN74AHCT14N	288577CM	....35	..291	..202
74AHCT74N	43924CM	....32	..27	..20	SN74AHCT74N	288649CM	....35	..291	..202
74AHCT86N	43932CM	....21	..18	..13	SN74AHCT86N	288657CM	....23	..19	..17
74AHCT138N	243248CM	....33	..282	..212	SN74AHCT138N	288673CM	....36	..306	..23
74AHCT139N	243256CM	....26	..252	..189	SN74AHCT139N	288711CM	....29	..28	..20
74AHCT240N	214244CM	....26	..241	..181	SN74AHCT240N	288737CM	....29	..259	..248
74AHCT244N	63466CM	....27	..221	..165	SN74AHCT244N	288868CM	....29	..24	..21
74AHCT245N	43887CM	....39	..299	..227	SN74AHCT245N	288884CM	....43	..328	..248
74AHCT373N	43908CM	....26	..22	..193	SN74AHCT373N	288892CM	....29	..237	..214
74AHCT374N	43916CM	....26	..22	..165	SN74AHCT374N	288913CM	....29	..237	..212
74AHCT574N	214252CM	....42	..36	..27	SN74AHCT574N	288964CM	....45	..389	..292

### SOIC Package

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74AHCT00M	289060CM	..22	..183	..143	SN74AHCT00D	289051CM	..24	..20	..16
74AHCT04M	289094CM	....*	..149	..126	SN74AHCT04D	289086CM	....21	..16	..14
74AHCT08M	289158CM	....*	..149	..134	SN74AHCT08D	289140CM	....21	..16	..15
74AHCT14M	289174CM	....*	..133	..118	SN74AHCT14D	289166CM	....*	..146	..129
74AHCT74M	289254CM	....26	..224	..159	SN74AHCT74D	289262CM	....29	..25	..18
74AHCT86M	289297CM	....21	..174	..151	SN74AHCT86D	289289CM	....23	..191	..166
74AHCT138M	289326CM	....45	..365	..277	SN74AHCT138D	289318CM	....50	..40	..30
74AHCT139M	289351CM	....44	..35	..277	SN74AHCT139D	289342CM	....48	..38	..285
74AHCT240M	289414CM	....41	..349	..261	SN74AHCT240DW	289385CM	....45	..38	..285
74AHCT244M	289457CM	....21	..179	..134	SN74AHCT244DW	289449CM	....43	..33	..25
74AHCT245M	289481CM	....39	..299	..227	SN74AHCT245DW	289490CM	....43	..33	..247
74AHCT373M	289511CM	....39	..299	..224	SN74AHCT373DW	289502CM	....43	..33	..25
74AHCT374M	289570CM	....26	..216	..162	SN74AHCT374DW	289561CM	....29	..237	..212
74AHCT574M	289633CM	....39	..30	..225	SN74AHCT574DW	289617CM	....43	..33	..25

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend
New Sale Lower\$ QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

## 74ABTXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
ABT	DIP	SN74ABTXXN	74ABTXXXN	74ABTXXXPC	74ABTXXXN
	SOIC	SN74ABTXXD/DW	74ABTXXD	74ABTXXXSC	74ABTXXD

## 74ABT Series – The BiCMOS Technology for High Performance Bus Systems

DIP



SOIC



## Jameco Value Offering, Save Up To 30%!

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## Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74ABT125	14	Quad Buffer, 3-St.	74ABT245	20	Octal Transceiver	74ABT534	20	Octal D FF, 3-St.	74ABT646	24	Octal Bus Trans.	74ABT5402	28	12b Line/Memory Dr.
74ABT240	20	Octal Buff., Invert.	74ABT373	20	Octal D Latch, 3-St.	74ABT541	20	Octal Buff. Non-Inv.	74ABT652	24	Octal Reg. Trans.			
74ABT241	20	Octal Buff., Non-Inv.	74ABT374	20	Oct D FF, Edge-Trig.	74ABT573	20	Octal D Latch, 3-St.	74ABT2240	20	Octal Buff/Driver			
74ABT244	20	Octal Buff., 3-St.	74ABT377	20	Oct D FF w/ Clk En.	74ABT574	20	Oct D FF, Edge-Trig.	74ABT2244	20	Octal Buff w. Res.			

## DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74ABT125N	290351CM	\$.36	\$.291	\$.27	SN74ABT125N	290482CM	\$.41	\$.34	\$.29
74ABT240AN	290360CM	\$.63	\$.55	\$.42	SN74ABT240AN	290503CM	\$.72	\$.612	\$.459
74ABT244AN	290378CM	\$.59	\$.448	\$.336	SN74ABT244AN	290511CM	\$.67	\$.51	\$.39
74ABT245BN	290386CM	\$.41	\$.356	\$.267	SN74ABT245BN	290520CM	\$.45	\$.387	\$.29
74ABT373N	290415CM	\$.59	\$.448	\$.336	SN74ABT373N	290546CM	\$.65	\$.491	\$.377
74ABT374AN	290423CM	\$.59	\$.448	\$.338	SN74ABT374AN	290589CM	\$.65	\$.491	\$.368
74ABT541BN	290440CM	\$.66	\$.498	\$.378	SN74ABT541BN	290685CM	\$.74	\$.56	\$.43
74ABT573AN	290431CM	\$.59	\$.448	\$.336	SN74ABT573AN	290693CM	\$.67	\$.51	\$.385
74ABT574AN	290458CM	\$.35	\$.309	\$.204	SN74ABT574AN	290706CM	\$.38	\$.334	\$.328
74ABT646AN	290466CM	1.13	\$.96	\$.721	SN74ABT646AN	290714CM	1.29	1.09	\$.81
74ABT2244AN	290343CM	\$.59	\$.448	\$.344	SN74ABT2244AN	290722CM	\$.65	\$.491	\$.377

## SOIC Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74ABT125D	290837CM	\$.25	\$.218	\$.163	SN74ABT125D	290811CM	\$.27	\$.237	\$.177
74ABT240AD	290917CM	\$.38	\$.316	\$.237	SN74ABT240AD	290909CM	\$.41	\$.346	\$.259
74ABT241AD	290950CM	\$.72	\$.548	\$.411	SN74ABT241AD	290941CM	\$.82	\$.62	\$.465
74ABT244AD	291178CM	\$.29	\$.253	\$.19	SN74ABT244AD	291160CM	\$.32	\$.276	\$.207
74ABT245BD	291194CM	\$.40	\$.344	\$.257	SN74ABT245BD	291186CM	\$.44	\$.374	\$.28
74ABT373D	291240CM	\$.29	\$.254	\$.207	SN74ABT373D	291223CM	\$.32	\$.276	\$.224
74ABT374AD	291274CM	\$.59	\$.448	\$.344	SN74ABT374AD	291266CM	\$.67	\$.51	\$.38
74ABT377AD	291362CM	\$.66	\$.50	\$.378	SN74ABT377AD	291354CM	\$.74	\$.56	\$.42
74ABT534AD	291389CM	\$.73	\$.65	\$.59	SN74ABT534AD	291371CM	\$.79	\$.66	\$.59
74ABT541BD	291426CM	\$.58	\$.398	\$.298	SN74ABT541BD	291418CM	\$.66	\$.47	\$.42
74ABT573AD	291469CM	\$.59	\$.448	\$.337	SN74ABT573AD	291442CM	\$.65	\$.49	\$.367
74ABT574AD	291565CM	\$.59	\$.45	\$.34	SN74ABT574AD	291557CM	\$.67	\$.51	\$.382
74ABT646AD	291637CM	1.15	\$.97	\$.726	SN74ABT646AD	291602CM	1.25	1.06	\$.79
74ABT652AD	291733CM	1.15	\$.977	\$.732	SN74ABT652AD	291741CM	1.35	1.12	\$.89
74ABT2240AD	291768CM	\$.72	\$.55	\$.416	SN74ABT2240AD	291750CM	\$.82	\$.62	\$.465
74ABT2244AD	291784CM	\$.59	\$.448	\$.34	SN74ABT2244AD	291776CM	\$.65	\$.491	\$.368
74ABT5402AD	291400CM	2.79	2.69	2.53	SN74ABT5402AD	291397CM	3.09	2.69	2.53

## 74HC(T)XXX CMOS Logic Competitive Cross Reference Guide (see next page)

## 74HC Series – The HC family offers CMOS inputs and CMOS outputs

DIP



SOIC



TSSOP



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## Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74HC00	14	Quad 2-input NAND	74HC04	14	Hex Inverter	74HC08	14	Quad 2-input AND	74HC10	14	Triple 3-input NAND	74HC11	14	Triple 3-input AND
74HC02	14	Quad 2-input NOR												

## DIP Package

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HC00N	45161CM	\$.22	\$.19	\$.14	SN74HC00N	250966CM	\$.24	\$.21	\$.151
74HC02N	45188CM	\$.24	\$.158	\$.126	SN74HC02N	250974CM	\$.26	\$.173	\$.156
74HC04N	45209CM	\$.24	\$.208	\$.176	SN74HC04N	250982CM	\$.26	\$.228	\$.193
74HC08N	45225CM	\$.158	\$.12	\$.09	SN74HC08N	251002CM	\$.173	\$.13	\$.09
74HC10N	45233CM	\$.34	\$.279	\$.202	SN74HC10N	251011CM	\$.37	\$.30	\$.218
74HC11N	45268CM	\$.158	\$.119	\$.09	SN74HC11N	251037CM	\$.20	\$.17	\$.13

## Surface Mount

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
SOIC = M		TSSOP = T			SOIC = M, D, DW		TSSOP = PW		
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HC00M	197106CM	\$.144	\$.109	\$.08	SN74HC00M	251889CM	\$.20	\$.156	\$.118
74HC00T	380015CM	\$.125	\$.109	\$.08	SN74HC00PW	379911CM	\$.137	\$.12	\$.09
74HC02M	197114CM	\$.125	\$.094	\$.08	SN74HC02D	251926CM	\$.25	\$.159	\$.10
74HC02T	380031CM	\$.125	\$.109	\$.08	SN74HC04D	251934CM	\$.137	\$.103	\$.09
74HC04M	197122CM	\$.133	\$.085	\$.08	SN74HC04PW	380058CM	\$.137	\$.12	\$.09
74HC04T	380066CM	\$.125	\$.109	\$.08	SN74HC08D	251942CM	\$.135	\$.09	\$.09
74HC08M	197131CM	\$.125	\$.094	\$.08	SN74HC08PW	380074CM	\$.137	\$.12	\$.09
74HC08T	380082CM	\$.125	\$.109	\$.08	SN74HC10D	251951CM	\$.137	\$.103	\$.09
74HC10M	243272CM	\$.125	\$.094	\$.08					

† Note: TI now owns GE, Harris &amp; RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

## 74HC(T)XXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	TSSOP	SN74HC(T)XXXPW	74HC(T)XXXT	MM74HC(T)XXXMTC	MC74HC(T)XXXDT	M74HC(T)XXXT	74HC(T)XXXPW	—

### 74HC Series (Continued) – The HC The family offers CMOS inputs and CMOS outputs.

DIP 

SOIC 

TSSOP 

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#### Texas Instruments Products, Save Up To 20%!

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### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74HC14	14	Hex Inverter Schmitt	74HC86	14	Quad 2-input OR	74HC139	16	Dual 2:4 Decoder	74HC164	14	8b Ser. Shift Reg.	74HC221	16	Dual Multivibrator
74HC30	14	8-In NAND Gate	74HC123	16	Dual Retrigger. Multivib.	74HC154	24	4:16 Line Decoder	74HC165	16	8b Par. Shift Reg.	74HC240	20	Octal Buff., Invert.
74HC32	14	Quad 2-input OR	74HC125	14	Quad Buffer, 3-st.	74HC157	16	Quad 2:1 Mux.	74HC174	16	Hex D Flip-Flop	74HC244	20	Octal Buff., 3-St.
74HC74	14	Dual D Flip-Flop	74HC132	14	Quad Pos. NAND Gate	74HC161	16	4b Cntr., Async Clr.	74HC192	16	4b Up/Down Counter	74HC245	20	Octal Transceiver
74HC85	16	4b Mng. Comparator	74HC138	16	3:8 Line Decoder	74HC163	16	4b Cntr., Sync Clr.	74HC193	16	4b Sync Binary Cntr.	74HC273	20	Oct D FF, Edge-Trig.

#### DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HC14N	45364CM	\$.22	\$.19	\$.17	SN74HC14N	251045CM	\$.24	\$.21	\$.18
74HC30N	45786CM	\$.29	\$.258	\$.193	CD74HC30E	251070CM	\$.31	\$.28	\$.20
74HC32N	45794CM	\$.24	\$.21	\$.15	SN74HC32N	251088CM	\$.27	\$.227	\$.162
74HC74N	46130CM	\$.27	\$.25	\$.22	SN74HC74N	251096CM	\$.30	\$.275	\$.242
74HC85N	46172CM	\$.49	\$.38	\$.27	CD74HC85E	251109CM	\$.54	\$.46	\$.34
74HC86N	46181CM	\$.23	\$.166	\$.124	SN74HC86N	251133CM	\$.25	\$.212	\$.159
74HC123N	45292CM	\$.30	\$.243	\$.18	CD74HC123E	251184CM	\$.32	\$.27	\$.20
74HC125N	45305CM	\$.28	\$.24	\$.18	SN74HC125N	251192CM	\$.31	\$.26	\$.20
74HC132N	45321CM	\$.28	\$.234	\$.18	SN74HC132N	251205CM	\$.31	\$.26	\$.20
74HC138N	45330CM	\$.30	\$.27	\$.18	SN74HC138N	251213CM	\$.33	\$.29	\$.20
74HC139N	45356CM	\$.20	\$.17	\$.127	SN74HC139N	251221CM	\$.35	\$.30	\$.22
74HC154WN	111739CM	\$.74	\$.67	\$.50	CD74HC154E	251230CM	\$.80	\$.72	\$.54
74HC154N	45401CM	\$.75	\$.63	\$.51	CD74HC154EN	251248CM	\$.81	\$.68	\$.55
74HC157N	45428CM	\$.29	\$.22	\$.165	SN74HC157N	251299CM	\$.31	\$.238	\$.178
74HC161N	45452CM	\$.26	\$.22	\$.165	SN74HC161N	251301CM	\$.29	\$.25	\$.18
74HC163N	45479CM	\$.28	\$.24	\$.18	SN74HC163N	251310CM	\$.34	\$.289	\$.216
74HC164N	45487CM	\$.38	\$.30	\$.23	SN74HC164N	251328CM	\$.41	\$.33	\$.25
74HC165N	45495CM	\$.32	\$.27	\$.20	SN74HC165N	251336CM	\$.35	\$.30	\$.22
74HC174N	45508CM	\$.25	\$.21	\$.16	SN74HC174N	251352CM	\$.26	\$.21	\$.16
74HC192N	45541CM	1.59	1.45	1.29	CD74HC192E	251395CM	1.75	1.57	1.39
74HC193N	45559CM	\$.30	\$.266	\$.168	SN74HC193N	251387CM	\$.32	\$.291	\$.184
74HC221N	45604CM	\$.35	\$.304	\$.228	CD74HC221E	251408CM	\$.39	\$.331	\$.248
74HC240N	45612CM	\$.34	\$.26	\$.19	SN74HC240N	251416CM	\$.37	\$.255	\$.191
74HC244N	45655CM	\$.45	\$.39	\$.35	SN74HC244N	251424CM	\$.49	\$.42	\$.31
74HC245N	45671CM	\$.45	\$.38	\$.29	SN74HC245N	251432CM	\$.49	\$.41	\$.31
74HC273N	45743CM	\$.32	\$.276	\$.207	SN74HC273N	251459CM	\$.35	\$.30	\$.22



\*0.6"W \*\*0.3"W

#### Surface Mount

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
SOIC = M		TSSOP = T			SOIC = M, D, DW		TSSOP = PW		
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HC14M	197149CM	\$.141	\$.105	\$.105	SN74HC14D	251969CM	\$.155	\$.116	\$.116
74HC14T	380277CM	\$.36	\$.289	\$.203	SN74HC14PW	380269CM	\$.39	\$.319	\$.221
74HC30M	243281CM	\$.28	\$.234	\$.178	CD74HC30M	251985CM	\$.31	\$.26	\$.195
74HC32M	197157CM	\$.113	\$.085	\$.085	SN74HC32D	251993CM	\$.137	\$.102	\$.102
74HC32T	380656CM	\$.125	\$.109	\$.109	SN74HC32PW	380648CM	\$.137	\$.12	\$.12
74HC74M	197165CM	\$.133	\$.095	\$.095	SN74HC74D	252030CM	\$.28	\$.193	\$.145
74HC74T	381114CM	\$.141	\$.126	\$.126	SN74HC74PW	381106CM	\$.155	\$.138	\$.138
74HC85M	243299CM	\$.43	\$.37	\$.278	CD74HC85M	252048CM	\$.59	\$.54	\$.49
74HC86M	243301CM	\$.108	\$.081	\$.081	SN74HC86D	252056CM	\$.126	\$.095	\$.095
74HC86T	381131CM	\$.141	\$.126	\$.126	SN74HC86PW	381122CM	\$.155	\$.138	\$.138
74HC123M	243310CM	\$.39	\$.299	\$.224	CD74HC123M	252064CM	\$.43	\$.328	\$.248
74HC123T	380103CM	\$.34	\$.291	\$.227	SN74HC125D	252072CM	\$.25	\$.216	\$.162
74HC125M	243328CM	\$.23	\$.20	\$.15	SN74HC125D	252072CM	\$.25	\$.216	\$.162
74HC125T	380120CM	\$.21	\$.191	\$.143	SN74HC132D	252081CM	\$.28	\$.208	\$.156
74HC132M	243731CM	\$.24	\$.191	\$.143	ST74HC132PW	380146CM	\$.32	\$.273	\$.248
74HC132T	380197CM	\$.30	\$.249	\$.227	SN74HC138D	252099CM	\$.26	\$.22	\$.19
74HC138M	197173CM	\$.133	\$.10	\$.10	SN74HC138D	252099CM	\$.26	\$.22	\$.19
74HC138T	380251CM	\$.24	\$.199	\$.176	SN74HC139D	252101CM	\$.40	\$.34	\$.26
74HC139M	243740CM	\$.36	\$.306	\$.229	CD74HC154M	252110CM	\$.41	\$.35	\$.26
74HC154WM	243758CM	\$.37	\$.30	\$.225	SN74HC157D	252136CM	\$.158	\$.118	\$.118
74HC154T	380293CM	\$.20	\$.159	\$.121	SN74HC157PW	380306CM	\$.26	\$.218	\$.193
74HC157M	243766CM	\$.145	\$.108	\$.108	SN74HC161D	252144CM	\$.27	\$.206	\$.154
74HC157T	380314CM	\$.24	\$.199	\$.176	SN74HC161D	252144CM	\$.27	\$.206	\$.154
74HC161M	243774CM	\$.25	\$.191	\$.143	SN74HC164D	252152CM	\$.25	\$.21	\$.16
74HC164M	197181CM	\$.23	\$.20	\$.15	SN74HC165D	252161CM	\$.36	\$.306	\$.23
74HC165M	197190CM	\$.24	\$.216	\$.162	SN74HC165PW	380381CM	\$.32	\$.273	\$.239
74HC165T	380429CM	\$.30	\$.249	\$.218	SN74HC174D	252179CM	\$.25	\$.21	\$.16
74HC174M	243782CM	\$.23	\$.174	\$.13	SN74HC174PW	380437CM	\$.32	\$.273	\$.239
74HC174T	380453CM	\$.30	\$.249	\$.218	SN74HC193D	252187CM	\$.43	\$.328	\$.248
74HC193M	243791CM	\$.39	\$.299	\$.224	CD74HC221M	252259CM	\$.52	\$.44	\$.33
74HC221AM	243803CM	\$.43	\$.37	\$.278	SN74HC240DW	252267CM	\$.36	\$.281	\$.211
74HC240WM	243811CM	\$.33	\$.26	\$.195	SN74HC240PW	380461CM	\$.28	\$.237	\$.202
74HC240T	380488CM	\$.25	\$.216	\$.185	SN74HC244DW	252275CM	\$.20	\$.185	\$.139
74HC244M	197202CM	\$.17	\$.127	\$.127	SN74HC244PW	380525CM	\$.28	\$.237	\$.202
74HC244T	380509CM	\$.25	\$.216	\$.185	SN74HC245DW	252291CM	\$.28	\$.24	\$.18
74HC245M	197211CM	\$.23	\$.165	\$.124	SN74HC245PW	380568CM	\$.28	\$.237	\$.202
74HC245T	380592CM	\$.25	\$.216	\$.185	SN74HC273DW	252304CM	\$.34	\$.281	\$.211
74HC273WM	243820CM	\$.31	\$.26	\$.195	SN74HC273PW	380613CM	\$.28	\$.237	\$.202
74HC273T	380630CM	\$.25	\$.216	\$.185	SN74HC273PW	380613CM	\$.28	\$.237	\$.202

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.  
**74HC(T)XXX CMOS Logic Competitive Cross Reference Guide (see previous page)**

**74HC Series (Continued)** – The HC family offers CMOS inputs and CMOS outputs.



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### Product Descriptions – Corresponds To Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74HC373	20	Octal D Latch, 3-St.	74HC573	20	Octal D Latch, 3-St.	74HC4017	16	Decade Cntr./Divider	74HC4050	16	Hex Buff. Non-Inv.	74HC4066	14	Quad Analog Switch
74HC374	20	Oct D FF, Edge-Trig.	74HC574	20	Oct D FF, Edge-Trig.	74HC4020	16	14b Binary Counter	74HC4051	16	8-Channel Mux.	74HC4316	16	H.S. Quad Analog Sw.
74HC393	14	4b Binary Counter	74HC590	16	8b Bin. Cntr. 3-St.	74HC4040	16	12b Binary Counter	74HC4052	16	Dual 4-Chan. Mux.	74HC4514	24	4:16 Line Dec./Mux.
74HC540	20	Octal Buff. Invert.	74HC595	16	8b Shift Reg. 3-St.	74HC4046	16	PLL w/ VCO	74HC4053	16	Triple 2-Chan. Mux.	74HC4538	16	Dual Retrigger. Multivib.
74HC541	20	Octal Buff. Non-Inv.	74HC688	20	8b ID Counter	74HC4049	16	Hex Buffer Invert.	74HC4060	16	14-Stage Bin. Cntr.			

### DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HC373N	45831CM	\$.45	\$.39	\$.35	SN74HC373N	251475CM	\$.49	\$.42	\$.38
74HC374N	45858CM	\$.36	\$.31	\$.23	SN74HC374N	251483CM	\$.39	\$.33	\$.25
74HC393N	45874CM	\$.29	\$.25	\$.18	SN74HC393N	251504CM	\$.32	\$.29	\$.26
74HC540N	109760CM	\$.37	\$.31	\$.23	SN74HC540N	251512CM	\$.40	\$.33	\$.25
74HC541N	46050CM	\$.37	\$.31	\$.24	SN74HC541N	251521CM	\$.41	\$.35	\$.26
74HC573N	46076CM	\$.31	\$.26	\$.22	SN74HC573AN	251547CM	\$.41	\$.34	\$.30
74HC574N	46084CM	\$.30	\$.23	\$.17	SN74HC574N	251555CM	\$.41	\$.35	\$.26
74HC590N	88090CM	\$.38	\$.32	\$.24	SN74HC590AN	251635CM	\$.41	\$.34	\$.30
74HC595N	46105CM	\$.62	\$.44	\$.39	SN74HC595N	251643CM	\$.67	\$.48	\$.42
74HC688N	46113CM	\$.44	\$.37	\$.30	SN74HC688N	251651CM	\$.49	\$.42	\$.31
74HC4017N	45891CM	\$.50	\$.46	\$.42	CD74HC4017E	251660CM	\$.54	\$.49	\$.46
74HC4020N	45903CM	\$.26	\$.18	\$.16	CD74HC4020E	251678CM	\$.33	\$.28	\$.21
74HC4040N	45920CM	\$.25	\$.20	\$.15	SN74HC4040N	251686CM	\$.33	\$.26	\$.22
74HC4046N	45938CM	\$.44	\$.37	\$.26	CD74HC4046AE	251694CM	\$.47	\$.38	\$.28
74HC4049N	272057CM	\$.39	\$.33	\$.24	CD74HC4049E	272049CM	\$.42	\$.35	\$.29
74HC4050N	272073CM	\$.41	\$.33	\$.24	CD74HC4050E	272065CM	\$.45	\$.36	\$.27
74HC4051N	88102CM	\$.33	\$.28	\$.23	CD74HC4051E	251707CM	\$.36	\$.31	\$.26
74HC4052N	272090CM	\$.44	\$.32	\$.24	CD74HC4052E	272081CM	\$.48	\$.36	\$.27
74HC4053N	272129CM	\$.40	\$.31	\$.23	CD74HC4053E	272111CM	\$.44	\$.34	\$.25
74HC4060N	45962CM	\$.28	\$.24	\$.23	SN74HC4060N	251803CM	\$.30	\$.27	\$.25
74HC4066N	45971CM	\$.31	\$.26	\$.20	SN74HC4066N	251811CM	\$.34	\$.29	\$.21
74HC4316N	272153CM	\$.31	\$.25	\$.21	CD74HC4316E	272145CM	\$.34	\$.28	\$.23
74HC4514N	46009CM	\$.81	\$.69	\$.52	CD74HC4514EN	318908CM	\$.88	\$.83	\$.80
74HC4538N	46017CM	\$.30	\$.26	\$.20	CD74HC4514E	251820CM	1.69	1.54	1.40
					CD74HC4538E	251838CM	\$.33	\$.29	\$.24

\*0.3"V \*\*0.6"V

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

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## 74HCT(XXX) CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	ST Micro	Philips	Toshiba
HC(T)	DIP	SN74HC(T)XXXN	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	DIP	CD74HC(T)XXE	74HC(T)XXXN	MM74HC(T)XXXN	MC74HC(T)XXXN	M74HC(T)XXXBIR	74HC(T)XXXN	TC74HC(T)XXXAP
	SOIC	SN74HC(T)XXXD/DW	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	SOIC	CD74HC(T)XXXM	74HC(T)XXXM/WM	MM74HC(T)XXXM/WM	MC74HC(T)XXXD	M74HC(T)XXXMIR	74HC(T)XXXD	TC74HC(T)XXXAF/AFW
	TSSOP	SN74HC(T)XXXPW	74HC(T)XXXT	MM74HC(T)XXXMTC	MC74HC(T)XXXDT	M74HC(T)XXXT	74HC(T)XXXPW	—

### 74HCT Series – The HCT family offers TTL inputs with CMOS outputs.

DIP  SOIC  TSSOP 

#### Jameco Value Offering, Save Up To 30%!

Now you can save up to 30% off market prices! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

#### Texas Instruments Products, Save Up To 20%!

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-20% off TI and competitive prices. And if your project doesn't require a specific brand of IC, but can be one of five or six major brands, select from the functionally equivalent Jameco Value Offering column to save up to 30%!

### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74HCT00	14	Quad 2-input NAND	74HCT14	14	Hex Inverter Schmitt	74HCT138	16	3:8 Line Decoder	74HCT244	20	Octal Buff., 3-St.	74HCT540	20	Octal Buff. Invert.
74HCT02	14	Quad 2-input NOR	74HCT32	14	Quad 2-input OR	74HCT139	16	Dual 2:4 Decoder	74HCT245	20	Octal Transceiver	74HCT541	20	Octal Buff. Non-Inv.
74HCT04	14	Hex Inverter	74HCT74	14	Dual D Flip-Flop	74HCT154	24	4:16 Line Decoder	74HCT273	20	Oct D FF, Edge-Trig.	74HCT573	20	Octal D Latch, 3-St.
74HCT08	14	Quad 2-input AND	74HCT86	14	Quad 2-input OR	74HCT157	16	Quad 2:1 Mux.	74HCT373	20	Octal D Latch, 3-St.	74HCT574	20	Oct D FF, Edge-Trig.
74HCT10	14	Triple 3-input NAND	74HCT123	16	Dual Retrigger. Multivib.	74HCT164	14	8b Ser. Shift Reg.	74HCT374	20	Oct D FF, Edge-Trig.	74HCT688	20	8b ID Counter
74HCT11	14	Triple 3-input AND	74HCT125	14	Quad Buffer, 3-st.	74HCT240	20	Octal Buff., Invert.	74HCT393	14	4b Binary Counter			

### PDIP Package

\* Minimum order 10 pieces



Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HCT00N	44871CM	\$.24	\$.20	\$.19	SN74HCT00N	246406CM	\$.26	\$.22	\$.165
74HCT02N	44880CM	\$.33	.266	.185	SN74HCT02N	246414CM	\$.37	.306	.229
74HCT04N	44898CM	*	.158	.118	SN74HCT04N	246422CM	*	.199	.149
74HCT08N	44901CM	\$.24	.183	.118	SN74HCT08N	246431CM	\$.26	.19	.129
74HCT10N	618046CM	\$.34	.279	.218					
74HCT11N	618054CM	\$.44	.349	.265					
74HCT14N	44935CM	\$.23	.20	.15	SN74HCT14N	246449CM	\$.25	.21	.16
74HCT32N	45057CM	*	.158	.118	SN74HCT32N	246457CM	\$.20	.173	.129
74HCT74N	45137CM	\$.26	.224	.168	SN74HCT74N	246465CM	\$.29	.25	.187
74HCT86N	45145CM	\$.28	.22	.165	CD74HCT86E	246473CM	\$.37	.31	.23
74HCT123N	88049CM	\$.29	.25	.188	CD74HCT123E	246481CM	\$.32	.296	.222
74HCT125N	243192CM	\$.25	.21	.158	SN74HCT125N	246490CM	\$.29	.237	.177
74HCT138N	44927CM	\$.33	.282	.26	SN74HCT138N	246502CM	\$.40	.346	.304
74HCT139N	63773CM	\$.22	.188	.141	SN74HCT139N	246511CM	\$.33	.285	.214
74HCT154N	88057CM	1.05	.89	.67	CD74HCT154E	246521CM	1.15	.98	.73
74HCT157N	272196CM	\$.31	.26	.193	74HCT157N	272170CM	\$.34	.281	.21
74HCT164N	44978CM	\$.39	.324	.243	CD74HCT164E	250819CM	\$.42	.355	.266
74HCT240N	45014CM	\$.24	.202	.151	SN74HCT240N	250827CM	\$.26	.22	.165
74HCT244N	45022CM	\$.31	.28	.25	SN74HCT244N	250835CM	\$.34	.29	.22
74HCT245N	45031CM	\$.34	.29	.22	SN74HCT245N	250843CM	\$.37	.319	.276
74HCT273N	45049CM	\$.29	.257	.213	SN74HCT273N	250851CM	\$.32	.272	.204
74HCT373N	45065CM	\$.21	.158	.12	SN74HCT373N	250878CM	\$.23	.173	.13
74HCT374N	45073CM	\$.29	.25	.188	SN74HCT374N	250894CM	\$.31	.27	.203
74HCT393N	243205CM	\$.43	.324	.244	CD74HCT393E	250907CM	\$.47	.355	.27
74HCT540N	109778CM	\$.46	.349	.262	SN74HCT540N	250915CM	\$.50	.38	.294
74HCT541N	99303CM	\$.25	.21	.16	SN74HCT541N	250923CM	\$.27	.227	.173
74HCT573N	45090CM	\$.35	.30	.23	SN74HCT573N	250931CM	\$.38	.33	.25
74HCT574N	45102CM	\$.39	.30	.23	SN74HCT574N	250940CM	\$.43	.33	.25
74HCT688N	45129CM	\$.58	.43	.322	CD74HCT688E	250958CM	\$.64	.468	.351

### Surface Mount

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
SOIC = M, WM		TSSOP = T			SOIC = D, DW, M		TSSOP = PW		
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74HCT00M	246027CM	\$.125	\$.094	\$.094	SN74HCT00D	246393CM	\$.137	\$.103	\$.103
74HCT00T	381157CM	\$.125	.109	.109	SN74HCT00PW	381149CM	*	.137	.12
74HCT02M	268390CM	\$.28	.24	.18	SN74HCT02D	268373CM	\$.31	.26	.20
74HCT04M	246035CM	\$.114	.086	.086	SN74HCT04D	246369CM	\$.124	.093	.093
74HCT04T	381173CM	\$.125	.125	.125	SN74HCT04PW	381165CM	*	.137	.12
74HCT08M	246043CM	\$.125	.094	.094	SN74HCT08D	246078CM	\$.137	.103	.103
74HCT08T	381190CM	\$.125	.109	.109	SN74HCT08PW	381181CM	*	.137	.12
74HCT14M	246060CM	\$.141	.106	.106	SN74HCT14D	246377CM	\$.155	.116	.116
74HCT14T	381237CM	\$.141	.126	.126	SN74HCT14PW	381229CM	\$.155	.138	.138
74HCT32M	246123CM	\$.125	.094	.094	SN74HCT32D	246318CM	\$.137	.103	.103
74HCT32T	381333CM	\$.125	.109	.109	SN74HCT32PW	381325CM	*	.137	.12
74HCT74M	246254CM	\$.10	.075	.075	SN74HCT74D	246262CM	\$.155	.116	.116
74HCT74T	381481CM	\$.141	.126	.126	SN74HCT74PW	381472CM	\$.155	.138	.138
74HCT86M	268429CM	\$.133	.12	.12	CD74HCT86M	268411CM	*	.217	.195
74HCT123M	271960CM	\$.29	.245	.184	CD74HCT123M	271951CM	\$.32	.27	.22
74HCT125M	271994CM	\$.12	.089	.089	SN74HCT125D	271986CM	\$.13	.095	.095
74HCT138M	246051CM	\$.20	.175	.132	SN74HCT138D	246385CM	\$.22	.19	.143
74HCT138T	381211CM	\$.24	.199	.176	SN74HCT138PW	381202CM	\$.26	.218	.193
74HCT139M	246271CM	\$.25	.21	.19	SN74HCT139D	246289CM	\$.27	.23	.17
74HCT157M	246297CM	\$.41	.35	.26	SN74HCT157D	246300CM	\$.45	.38	.29
74HCT164M	253024CM	\$.30	.26	.19	CD74HCT164M	253016CM	\$.32	.281	.20
74HCT240M	246086CM	\$.25	.21	.16	SN74HCT240D	246351CM	\$.28	.24	.18
74HCT240T	381245CM	\$.28	.237	.202	SN74HCT240PW	381253CM	\$.30	.256	.218
74HCT244M	246094CM	\$.25	.21	.16	SN74HCT244D	246342CM	\$.28	.24	.18
74HCT244T	381270CM	\$.25	.216	.185	SN74HCT244PW	381261CM	\$.28	.237	.202
74HCT245M	246107CM	\$.23	.193	.147	SN74HCT245D	246334CM	\$.25	.21	.16
74HCT245T	381296CM	\$.25	.216	.185	SN74HCT245PW	381288CM	\$.28	.237	.202
74HCT273M	246115CM	\$.25	.21	.16	SN74HCT273D	246326CM	\$.28	.24	.18
74HCT273T	381317CM	\$.25	.216	.185	SN74HCT273PW	381309CM	\$.28	.237	.202
74HCT373M	246131CM	\$.23	.193	.147	SN74HCT373D	246140CM	\$.25	.21	.16
74HCT373T	381350CM	\$.25	.216	.185					
74HCT374M	246158CM	\$.25	.21	.16	SN74HCT374D	246166CM	\$.28	.24	.18
74HCT374T	381376CM	\$.25	.216	.185	SN74HCT374PW	381368CM	\$.28	.237	.202
74HCT540M	246174CM	\$.26	.22	.21	SN74HCT540D	246182CM	\$.29	.25	.225
74HCT540T	381405CM	\$.26	.224	.202					
74HCT541M	246191CM	\$.30	.257	.227	SN74HCT541D	246203CM	\$.32	.282	.248
74HCT541T	381421CM	\$.26	.224	.202	SN74HCT541PW	381413CM	\$.29	.246	.221
74HCT573M	246220CM	\$.26	.22	.20	SN74HCT573D	246211CM	\$.29	.25	.235
74HCT573T	381448CM	\$.26	.224	.202					
74HCT54M	246238CM	\$.25	.21	.169	SN74HCT574D	246246CM	\$.27	.23	.173
74HCT574T	381456CM	\$.26	.224	.202					

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

## 74FXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	Philips
F	DIP	SN74FXXXN	74FXXXN	74FXXXPC	N74FXXXN
	SOIC	SN74FXXXD/DW	74FXXXD	74FXXXSC	N74FXXXD

### 74F Series – General purpose family of high speed advanced bipolar logic



#### Jameco Value Offering, Save Up To 30%!

Now you can save up to 30% off market prices! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

#### Texas Instruments Products, Save Up To 20%!

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-20% off TI and competitive prices. And if your project doesn't require a specific brand of IC, but can be one of five or six major brands, select from the functionally equivalent Jameco Value Offering column, to save up to 30%!

### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74F00	14	Quad 2-input NAND	74F38	14	Q 2-in NAND Gate O.C.	74F157	16	Quad 2:1 Mux.	74F244	20	Octal Buff., 3-St.	74F521	20	8b ID Comparator
74F02	14	Quad 2-input NOR	74F74	14	Dual D Flip-Flop	74F161	16	4b Cntr., Async Clr.	74F245	20	Octal Transceiver	74F541	20	Octal Buff. Non-Inv.
74F04	14	Hex Inverter	74F86	14	Quad 2-input OR	74F163	16	4b Cntr., Sync Clr.	74F257	16	Quad 2:1 Mux, 3-St.	74F543	24	Octal Reg. TXRX
74F08	14	Quad 2-input AND	74F125	14	Quad Buffer, 3-st.	74F164	14	8b ser. Shift Reg.	74F273	20	Oct D FF, Edge-Trig.	74F573	20	Octal D Latch, 3-St.
74F14	14	Hex Inverter Schmitt	74F138	16	3:8 Line Decoder	74F169	16	4b Bidir. Counter	74F299	20	8-in Shift/Stor. Reg.	74F574	20	Oct D FF, Edge-Trig.
74F20	14	Dual 4-input NAND	74F139	16	Dual 2:4 Decoder	74F174	16	Hex D Flip-Flop	74F373	20	Octal D Latch, 3-St.	74F579	20	8b Bidir. Counter
74F32	14	Quad 2-input OR	74F148	16	8:3 Priority Enc.	74F240	20	Octal Buff., Invert.	74F374	20	Oct D FF, Edge-Trig.			

#### DIP Package

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74F00N	286985CM	.... *	.141	.105	SN74F00N	281471CM	.... \$ .21	.16	\$ .12
74F02N	286993CM	.... *	.159	.119	SN74F02N	281480CM	.... .20	.173	.13
74F04N	287005CM	.... .20	.158	.119	SN74F04N	281498CM	.... .22	.189	.142
74F08N	287013CM	.... .20	.158	.118	SN74F08N	281501CM	.... .22	.18	.16
74F14N	287021CM	.... .22	.191	.159					
74F20N	287030CM	.... .21	.174	.149	SN74F20N	281527CM	.... .23	.195	.146
74F30N	245121CM	.... .47	.40	.30	SN74F30N	281535CM	.... .51	.435	.326
74F32N	287048CM	.... .20	.183	.16	SN74F32N	281543CM	.... .33	.28	.21
74F38N	245139CM	.... .30	.26	.195	SN74F38N	281893CM	.... .33	.281	.211
74F74N	287056CM	.... .26	.221	.165	SN74F74N	281906CM	.... .29	.246	.184
74F86N	287064CM	.... .24	.202	.151	SN74F86N	281914CM	.... .27	.23	.173
74F125N	245147CM	.... .25	.21	.158	SN74F125N	281922CM	.... .27	.227	.17
74F138N	287072CM	.... .21	.181	.136	SN74F138N	281931CM	.... .23	.197	.148
74F139N	287081CM	.... .26	.216	.162					
74F148N	245163CM	.... .31	.28	.21					
74F157AN	245171CM	.... *	.094	.085	SN74F157AN	281949CM	.... .22	.184	.138
74F161AN	245180CM	.... .37	.314	.236	SN74F161AN	281957CM	.... .42	.357	.267
74F163AN	245198CM	.... .39	.299	.227	SN74F163AN	281965CM	.... .42	.325	.244
74F164AN	245201CM	.... .37	.31	.233					
74F169N	245219CM	.... .55	.47	.35	SN74F169N	281973CM	.... .59	.51	.378
74F174N	282731CM	.... .30	.241	.18	SN74F174N	282693CM	.... .33	.28	.21
74F240N	245227CM	.... .33	.28	.21	SN74F240N	281981CM	.... .36	.302	.226
74F244N	287110CM	.... .39	.299	.198	SN74F244N	281990CM	.... .42	.34	.255
74F245N	287144CM	.... .25	.21	.158	SN74F245N	282001CM	.... .27	.255	.191
74F257N	245235CM	.... .30	.249	.187	SN74F257N	282044CM	.... .34	.28	.21
74F273N	287099CM	.... .48	.415	.312					
74F299N	281463CM	1.15	.93	.69	SN74F299N	282052CM	.... 1.25	1.00	.76
74F373N	287161CM	.... .45	.398	.302	SN74F373N	282079CM	.... .51	.434	.326
74F374N	287187CM	.... .35	.274	.23	SN74F374N	282600CM	.... .44	.355	.266
74F521N	282811CM	.... .69	.58	.435	SN74F521N	282802CM	.... .78	.66	.495
74F541N	282773CM	.... .66	.498	.373	SN74F541N	282765CM	.... .74	.56	.42
74F543N	245251CM	.... .83	.70	.527					
74F573N	287195CM	.... .39	.299	.199	SN74F573N	282642CM	.... .43	.328	.246
74F574N	287216CM	.... .53	.398	.302	SN74F574N	282669CM	.... .58	.437	.327
74F579N	245260CM	1.75	1.40	1.05					

#### SOIC Package

\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%						
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100		
74F00D	287697CM	...	* .123	.092	SN74F00D	282845CM	...	* .134	.10		
74F02D	287689CM	...	.21	.183	.148	SN74F02D	282888CM	...	.24	.204	.153
74F04D	287671CM	...	.21	.199	.149	SN74F04D	283071CM	...	.26	.229	.171
74F08D	287662CM	...	* .165	.124	SN74F08D	283080CM	...	.22	.18	.135	
74F14D	287654CM	...	.22	.191	.176						
74F32D	287638CM	...	.20	.17	.127	SN74F32D	283098CM	...	.22	.189	.142
74F38D	283127CM	...	.20	.141	.105	SN74F38D	283119CM	...	.22	.155	.116
74F74D	287620CM	...	.27	.241	.171	SN74F74D	283135CM	...	.30	.255	.191
74F86D	287611CM	...	.28	.238	.178	SN74F86D	283143CM	...	.31	.264	.202
74F125D	283160CM	...	.33	.266	.199	SN74F125D	283151CM	...	.37	.30	.225
74F132D	283178CM	...	.32	.257	.192						
74F138D	287566CM	...	.30	.157	.118	SN74F138D	283186CM	...	.34	.27	.20
74F148D	283194CM	...	.36	.306	.229						
74F157AD	283215CM	...	.33	.266	.199	SN74F157AD	283207CM	...	.37	.30	.225
74F161AD	283477CM	...	.39	.299	.224	SN74F161AD	283469CM	...	.45	.34	.255
74F169D	283493CM	...	.68	.58	.43	SN74F169D	283485CM	...	2.15	1.94	1.75
74F240D	287558CM	...	.39	.299	.224	SN74F240DW	283506CM	...	.43	.328	.246
74F244D	287540CM	...	.46	.407	.319	SN74F244DW	283514CM	...	.52	.442	.331
74F245D	287531CM	...	.31	.264	.198	SN74F245DW	283549CM	...	.45	.34	.255
74F257D	283557CM	...	.38	.299	.224	SN74F257D	283565CM	...	.43	.34	.26
74F373D	287494CM	...	.40	.324	.244	SN74F373DW	283590CM	...	.44	.355	.266
74F374D	287486CM	...	.39	.299	.224	SN74F374DW	283602CM	...	.43	.33	.247
74F521D	283696CM	...	.46	.349	.262	SN74F521DW	283670CM	...	.50	.382	.286
74F541D	283653CM	...	.66	.498	.373	SN74F541DW	304961CM	...	.72	.55	.41
74F543D	283629CM	...	.86	.73	.547	SN74F543DW	283611CM	...	.95	.80	.60
74F573D	287478CM	...	.39	.299	.198	SN74F573DW	283637CM	...	.43	.328	.248
74F574D	287460CM	...	.39	.299	.198	SN74F574DW	283645CM	...	.43	.328	.246

† Note: TI now owns GE, Harris & RCA logic; Fairchild now owns National Semi logic; and Philips now owns Signetics.

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## 74LSXXX CMOS Logic Competitive Cross Reference Guide

Family	Package	TI	Jameco	Fairchild	On Semi	Renesas
LS	DIP SOIC	SN74LSXXXN SN74LSXXXD/DW	74HC(T)XXXN 74HC(T)XXXM	DM74LSXXXN DM74LSXXXM/WM	SN74LSXXXN SN74LSXXXD/DW	HD74LSXXXP —

## 74LS Series – The Low The Power Schottky Logic

DIP  SOIC 

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Now you can save up to 30% off market prices! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

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### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74LS00	14	Quad 2-input NAND	74LS09	14	Q 2-in AND Gate O.C.	74LS32	14	Quad 2-input OR	74LS75	16	4b Bi-Stable Latch	74LS95	14	4b Shift Reg.
74LS02	14	Quad 2-input NOR	74LS10	14	Triple 3-input NAND	74LS37	14	Quad 2-in NAND Gate	74LS76	16	Dual JK FF, Preset	74LS107	14	Dual JK Flip-Flop
74LS03	14	Quad 2-input NAND O.C.	74LS11	14	Triple 3-input AND	74LS38	14	Q 2-in NAND Gate O.C.	74LS83	16	4b Binary Adder	74LS109	16	Pos. Edge-Trig. FF
74LS04	14	Hex Inverter	74LS14	14	Hex Inverter Schmitt	74LS42	16	BCD:Decimal Dec./Dr.	74LS85	16	4b Mag. Comparator	74LS112	16	Neg. Edge-Trig. FF
74LS05	14	Hex Inverter O.C.	74LS20	14	Dual 4-input NAND	74LS47	16	BCD:7-Seg. Dec./Dr. OC	74LS86	14	Quad 2-input OR	74LS122	14	Retrig. Mono.Multiv.
74LS06	14	Hex Inv. Buff./Driver	74LS21	14	Dual 4-input AND Gate	74LS48	16	BCD:7-Seg. Dec./Dr.	74LS90	14	Decade Counter	74LS123	16	Dual Mono. Multivib.
74LS07	14	Hex Buffer/Driver	74LS27	14	Triple 3-in NOR Gate	74LS73	14	Dual JK FF, Clear	74LS92	14	Divide by 12 Cntr.	74LS125	14	Quad Buffer, 3-st.
74LS08	14	Quad 2-input AND	74LS30	14	8-input NAND Gate	74LS74	14	Dual D Flip-Flop	74LS93	14	4b Binary Counter	74LS126	14	Quad Bus Buff. 3-st.

### DIP Package



\* Minimum order 10 pieces

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74LS00N⊕	46252CM ...	.41	.27	.24	SN74LS00N⊕	283725CM ...	.45	.364	.276
74LS02N⊕	46287CM ...	.41	.25	.21	SN74LS02N⊕	283741CM ...	.43	.328	.248
74LS03N⊕	46308CM ...	.41	.33	.25	SN74LS03N⊕	283784CM ...	.45	.364	.276
74LS04N⊕	46316CM ...	.41	.26	.23	SN74LS04N⊕	283792CM ...	.45	.364	.276
74LS05N⊕	46341CM ...	.41	.332	.252	SN74LS05N⊕	283805CM ...	.45	.364	.276
74LS06N⊕	46359CM ...	.64	.54	.405	SN74LS06N⊕	295304CM ...	.70	.59	.478
74LS07N⊕	46367CM ...	.55	.469	.351	SN74LS07N⊕	295312CM ...	.60	.51	.382
74LS08N⊕	46375CM ...	.36	.31	.22	SN74LS08N⊕	295401CM ...	.45	.364	.276
74LS09N⊕	46391CM ...	.52	.365	.277	SN74LS09N⊕	295419CM ...	.56	.428	.322
74LS10N⊕	46404CM ...	.38	.25	.23	SN74LS10N⊕	295427CM ...	.45	.364	.276
74LS11N*	46439CM ...	.35	.26	.22	SN74LS11N⊕	295443CM ...	.45	.364	.275
74LS14N⊕	46640CM ...	.37	.299	.227	SN74LS14N⊕	295460CM ...	.41	.328	.248
74LS20N⊕	47095CM ...	.28	.191	.185	SN74LS20N⊕	295478CM ...	.31	.209	.202
74LS21N⊕	47108CM ...	.25	.218	.186	SN74LS21N⊕	295486CM ...	.27	.237	.202
74LS27N⊕	47378CM ...	.25	.21	.158	SN74LS74N⊕	295494CM ...	.45	.364	.276
74LS30N⊕	47458CM ...	.37	.30	.23	SN74LS30N⊕	295507CM ...	.45	.346	.276
74LS32N⊕	47466CM ...	.29	.26	.23	SN74LS32N⊕	295515CM ...	.31	.28	.248
74LS37N⊕	47597CM ...	.54	.46	.34	SN74LS37N⊕	295558CM ...	.59	.482	.442
74LS38N⊕	47693CM ...	.33	.224	.202	SN74LS38N⊕	295566CM ...	.36	.246	.239
74LS42N⊕	47773CM ...	.84	.72	.59	SN74LS42N⊕	295574CM ...	1.17	.95	.75
74LS47N⊕	47790CM ...	.72	.52	.45	SN74LS47N⊕	295582CM ...	.77	.58	.539
74LS48N	47811CM ...	4.99	4.24	3.18	SN74LS73AN⊕	295700CM ...	1.09	.96	.77
74LS73N⊕	47992CM ...	1.03	.84	.64	SN74LS74AN⊕	295726CM ...	.45	.364	.276
74LS74N⊕	48004CM ...	.36	.25	.22	SN74LS75N⊕	295734CM ...	.95	.80	.60
74LS75N⊕	48021CM ...	.86	.73	.66					
74LS76N	48039CM ...	.83	.68	.61					
74LS83N	48063CM ...	1.49	1.35	1.19					
74LS85N⊕	48071CM ...	.42	.382	.345	SN74LS85N⊕	295742CM ...	.46	.419	.363
74LS86N⊕	48098CM ...	.35	.30	.22	SN74LS86AN⊕	295751CM ...	.38	.324	.238
74LS90N⊕	48119CM ...	.83	.72	.62	SN74LS90N⊕	295769CM ...	1.45	1.19	1.09
74LS92N⊕	48143CM ...	.99	.76	.63	SN74LS92N⊕	295814CM ...	1.15	.98	.74
74LS93N⊕	48151CM ...	.89	.79	.70	SN74LS93N⊕	295822CM ...	.95	.85	.76
74LS95N	48178CM ...	1.05	.91	.79					
74LS107N⊕	46412CM ...	.72	.51	.36	SN74LS107AN⊕	295865CM ...	.79	.72	.66
74LS109N⊕	46421CM ...	.73	.56	.437	SN74LS109AN⊕	295873CM ...	.80	.61	.472
74LS112N⊕	46447CM ...	.39	.299	.227	SN74LS112AN⊕	300855CM ...	.43	.328	.248
74LS122N⊕	46471CM ...	.46	.35	.262	SN74LS122N⊕	300863CM ...	.50	.382	.289
74LS123N⊕	46480CM ...	.37	.319	.239	SN74LS123N⊕	300880CM ...	.41	.347	.26
74LS125N⊕	46501CM ...	.33	.282	.26	SN74LS125AN⊕	300901CM ...	.36	.309	.285
74LS126N⊕	46527CM ...	.37	.345	.259	SN74LS126AN⊕	300927CM ...	.50	.382	.289

### SOIC Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74LS00M⊕	198361CM .	.21	.182	.137	SN74LS00D⊕	308582CM ..	.23	.197	\$.148
74LS02M⊕	198379CM ..	.23	.196	.167	SN74LS02D⊕	308603CM ....	.45	.364	.276
74LS04M⊕	198387CM ...	.33	.28	.21	SN74LS04D⊕	308611CM ....	.36	.302	.226
74LS05M⊕	198395CM ...	.32	.27	.203	SN74LS05D⊕	308620CM ....	.35	.292	.219
74LS06M⊕	309075CM ...	.64	.54	.437	SN74LS06D⊕	309067CM ....	.70	.59	.442
74LS07M⊕	198408CM ...	.66	.56	.36	SN74LS07D⊕	308638CM ....	.71	.61	.47
74LS08M⊕	198416CM ...	.21	.199	.149	SN74LS08D⊕	308654CM ...	.30	.259	.194
74LS09M⊕	309091CM ...	.41	.332	.252	SN74LS09D⊕	309083CM ...	.45	.364	.273
74LS10M⊕	198424CM ...	.35	.267	.20					
74LS11M⊕	198432CM ...	.43	.33	.25					
74LS14M⊕	198441CM ...	.37	.299	.224	SN74LS14D⊕	308849CM ....	.41	.327	.248
74LS20M	198459CM ...	.25	.222	.20					
74LS30M	198467CM ....	*	.144	.13					
74LS32M⊕	198475CM ...	.41	.332	.249	SN74LS32D⊕	308873CM ....	.45	.364	.276
74LS74M⊕	198491CM ...	.43	.276	.207	SN74LS74AD⊕	308881CM ....	.47	.30	.225
74LS75M	198504CM ...	.26	.233	.21					
74LS86M⊕	198521CM ...	.33	.282	.211	SN74LS85D⊕	308902CM ....	.40	.36	.324
					SN74LS86AD⊕	308911CM ....	.42	.356	.267
74LS93M	198547CM ...	.31	.278	.25					
74LS109M⊕	309112CM ...	.59	.448	.34	SN74LS109AD⊕	309104CM ....	.65	.491	.368
74LS123M⊕	198555CM ...	.55	.423	.259	SN74LS123D⊕	308937CM ....	.59	.457	.345
74LS125AM⊕	243168CM ...	.44	.37	.28	SN74LS125AD⊕	308945CM ...	.50	.382	.286
74LS126AM⊕	309139CM ...	.46	.349	.265	SN74LS126AD⊕	309121CM ...	.50	.382	.286

† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi  
\* 10 pcs. in 74LS series IC cabinet kit, pg 25      \*\* 20 pcs. in 74LS series IC cabinet kit, pg 25

 RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.   [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.

## 74LS Series (Continued) – The Low The Power Schottky Logic.



### Jameco Value Offering, Save Up To 30%!

Now you can save up to 30% off market prices! Our buyers will find the best deals available from this product family's most popular manufacturers and pass the savings on to you. For this family, you are guaranteed to receive Fairchild, National, On Semi, Philips, ST and/or Toshiba product.†

### Texas Instruments Products, Save Up To 20%!

Jameco now offers two ways to save! Our selection of Texas Instruments products will save you about 6-20% off TI and competitive prices. And if your project doesn't require a specific brand of IC, but can be one of five or six major brands, select from the functionally equivalent Jameco Value Offering column, to save up to 30%!



### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74LS132	14	Quad 2-in NAND Trig.	74LS155	16	Dual 2:4 Mux.	74LS169	16	4b Bidir. Counter	74LS194	16	4b Bidir. Shift Reg.	74LS257	16	Quad 2:1 Mux, 3-St.
74LS136	16	Quad 2-in Ex. O.C.	74LS156	16	Dual 2:4 L Dec./Demux.	74LS173	16	4b D-type Reg. 3-St.	74LS195	16	4b Parl. Shift Reg.	74LS259	16	8b Add. Latch
74LS138	16	3:8 Line Decoder	74LS157	16	Quad 2:1 Mux.	74LS174	16	Hex D Flip-Flop	74LS221	16	Dual Mono. Multivib.	74LS266	14	Quad 2-in Ex. NOR
74LS139	16	Dual 2:4 Decoder	74LS160	16	4b Decade Counter	74LS175	16	Quad D Flip-Flop	74LS240	20	Octal Buff., Invert.	74LS273	20	Oct D FF, Edge-Trig.
74LS145	16	BCD-Dec. Decoder	74LS161	16	4b Cntr., Async Ctr.	74LS181	24	4b Arithmetic Log	74LS241	20	Octal Buff., Non-Inv.	74LS279	20	Quad S-R Latch
74LS148	16	8:3 Priority Enc.	74LS163	16	4b Cntr., Sync Ctr.	74LS190	16	Sync Up/Dn Cntr.	74LS244	20	Octal Buff., 3-St.	74LS283	16	4b Bnry Full Addr.
74LS151	16	8:1 Selector/Mux.	74LS164	14	8b Shift Reg. Par.	74LS191	16	4b Bidir. Counter	74LS245	20	Octal Transceiver	74LS299	20	8-in Shift/Stor. Reg.
74LS153	16	Dual 4:8 Mux.	74LS165	16	8b Shift Reg. Load	74LS192	16	4b U/D Dec. Sync Cntr.	74LS247	16	BCD:7-Seg. Dec/Dr OC	74LS365	16	Hex Buff. Non-Inv.
74LS154	24	4:16 Line Dec./Demux.	74LS166	16	8b Shift Reg.	74LS193	16	4b U/D Sync Cntr.	74LS251	16	8:1 Mux, 3-State	74LS367	16	Hex Bus Drvr. 3-St.

### DIP Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74LS132N	46551CM ...	\$ .40	\$ .333	\$ .249	SN74LS132N	300935CM ...	\$ .43	\$ .362	\$ .271
74LS136N	46586CM	\$ .53	\$ .40	\$ .30	SN74LS136N	301225CM	\$ .58	\$ .437	\$ .331
74LS138N	46607CM	\$ .45	\$ .35	\$ .26	SN74LS138N	301233CM	\$ .50	\$ .382	\$ .29
74LS139N	46623CM	\$ .37	\$ .291	\$ .239	SN74LS139AN	301268CM	\$ .50	\$ .421	\$ .313
74LS145N	46666CM	\$ .73	\$ .55	\$ .423	SN74LS145N	301276CM	\$ .79	\$ .60	\$ .46
74LS148N	46682CM	\$ .51	\$ .432	\$ .324	SN74LS148N	301330CM	\$ .58	\$ .49	\$ .367
74LS151N	46703CM	\$ .45	\$ .349	\$ .269	SN74LS151N	301348CM	\$ .50	\$ .382	\$ .29
74LS153N	46720CM	\$ .41	\$ .35	\$ .26	SN74LS153N	301532CM	\$ .45	\$ .396	\$ .263
74LS154N	46738CM	\$ .515	\$ .459	\$ .369					
74LS155N	46754CM	\$ .85	\$ .72	\$ .54	SN74LS155AN	301559CM	\$ .92	\$ .78	\$ .58
74LS156N	46762CM	\$ .35	\$ .282	\$ .212	SN74LS156N	301591CM	\$ .39	\$ .309	\$ .29
74LS157N	46771CM	\$ .45	\$ .40	\$ .33	SN74LS157N	301612CM	\$ .50	\$ .43	\$ .356
74LS160N	46800CM	\$ .249	\$ .239	\$ .229					
74LS161N	46818CM	\$ .46	\$ .349	\$ .262	SN74LS161AN	301647CM	\$ .50	\$ .382	\$ .285
74LS163N	46842CM	\$ .46	\$ .349	\$ .265	SN74LS163AN	301663CM	\$ .50	\$ .382	\$ .29
74LS164N	46851CM	\$ .43	\$ .36	\$ .262	SN74LS164N	301671CM	\$ .47	\$ .382	\$ .286
74LS165N	46877CM	\$ .37	\$ .34	\$ .277	SN74LS165AN	301680CM	\$ .45	\$ .364	\$ .299
74LS166N	46885CM	\$ .71	\$ .54	\$ .41	SN74LS166AN	301727CM	\$ .79	\$ .60	\$ .455
74LS169N	46906CM	\$ .61	\$ .47	\$ .35	SN74LS169BN	301735CM	\$ .65	\$ .491	\$ .373
74LS173N	46922CM	\$ .94	\$ .801	\$ .601	SN74LS173AN	301743CM	\$ 1.02	\$ .97	\$ .653
74LS174N	46931CM	\$ .46	\$ .299	\$ .265	SN74LS174N	301760CM	\$ .49	\$ .328	\$ .246
74LS175N	46957CM	\$ .28	\$ .273	\$ .231	SN74LS175N	301778CM	\$ .30	\$ .295	\$ .251
74LS181N	46973CM	\$ 2.15	\$ 1.80	\$ 1.22	SN74LS181N	301786CM	\$ 3.79	\$ 3.19	\$ 2.30
74LS190N	46990CM	\$ 2.95	\$ 2.65	\$ 2.55					
74LS191N	47001CM	\$ .53	\$ .44	\$ .42	SN74LS191N	301815CM	\$ .58	\$ .482	\$ .455
74LS192N	47010CM	\$ 3.95	\$ 3.59	\$ 3.25					
74LS193N	47036CM	\$ .59	\$ .49	\$ .45	SN74LS193N	301831CM	\$ .64	\$ .53	\$ .486
74LS194N	47052CM	\$ .74	\$ .63	\$ .50	SN74LS194AN	301858CM	\$ .81	\$ .68	\$ .55
74LS195N	47061CM	\$ .93	\$ .80	\$ .72					
74LS221N	47124CM	\$ .33	\$ .267	\$ .25	SN74LS221N	308283CM	\$ .36	\$ .29	\$ .276
74LS240N	47141CM	\$ .42	\$ .34	\$ .255	SN74LS240N	308291CM	\$ .45	\$ .367	\$ .356
74LS241N	47167CM	\$ .36	\$ .299	\$ .23	SN74LS241N	308304CM	\$ .40	\$ .328	\$ .246
74LS244N	47183CM	\$ .44	\$ .37	\$ .28	SN74LS244N	308312CM	\$ .48	\$ .40	\$ .331
74LS245N	47212CM	\$ .53	\$ .40	\$ .35	SN74LS245N	308321CM	\$ .58	\$ .437	\$ .378
74LS247N	47247CM	\$ .94	\$ .80	\$ .60	SN74LS247N	308347CM	\$ 1.05	\$ .87	\$ .70
74LS251N	47271CM	\$ .53	\$ .398	\$ .299	SN74LS251N	308355CM	\$ .59	\$ .437	\$ .351
74LS257N	47298CM	\$ .69	\$ .53	\$ .40	SN74LS257BN	308363CM	\$ .75	\$ .57	\$ .427
74LS259N	47327CM	\$ .47	\$ .357	\$ .328	SN74LS259BN	308371CM	\$ .51	\$ .391	\$ .359
74LS266N	47360CM	\$ .65	\$ .498	\$ .378	SN74LS266N	308380CM	\$ .72	\$ .60	\$ .54
74LS273N	47386CM	\$ .49	\$ .392	\$ .303	SN74LS273N	308398CM	\$ .58	\$ .437	\$ .331
74LS279N	47407CM	\$ .50	\$ .41	\$ .295	SN74LS279AN	308401CM	\$ .55	\$ .428	\$ .321
74LS283N	47423CM	\$ .53	\$ .453	\$ .339	SN74LS283N	308435CM	\$ .58	\$ .493	\$ .369
74LS299N	47440CM	\$ .93	\$ .79	\$ .59	SN74LS299N	308427CM	\$ 1.05	\$ .96	\$ .74
74LS365N	47546CM	\$ .78	\$ .66	\$ .495	SN74LS365AN	308443CM	\$ .86	\$ .73	\$ .59
74LS367N	47562CM	\$ .42	\$ .38	\$ .263	SN74LS367AN	308451CM	\$ .47	\$ .382	\$ .286

### SOIC Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74LS138M	198563CM	\$.36	\$.267	\$.218	SN74LS138D	308953CM	\$.45	\$.339	\$.276
74LS139AM	309155CM	\$.37	\$.299	\$.227	SN74LS139AD	309147CM	\$.41	\$.328	\$.246
74LS145M	309171CM	\$.34	\$.293	\$.219	SN74LS145D	309163CM	\$.37	\$.319	\$.239
74LS151M	198571CM	\$.31	\$.266	\$.252					
74LS157M	198580CM	\$.40	\$.32	\$.284	SN74LS157D	308970CM	\$.44	\$.348	\$.309
74LS164M	309198CM	\$.46	\$.349	\$.265	SN74LS164D	309180CM	\$.50	\$.414	\$.31
74LS193M	198598CM	1.00	\$.85	\$.64					
74LS221M	243176CM	\$.64	\$.54	\$.405	SN74LS221D	308988CM	\$.69	\$.58	\$.50
74LS240M	198619CM	\$.32	\$.287	\$.255	SN74LS240DW	309008CM	\$.42	\$.356	\$.267
74LS244M	198627CM	\$.30	\$.282	\$.211	SN74LS244DW	309016CM	\$.43	\$.367	\$.281
74LS245M	198635CM	\$.39	\$.33	\$.252	SN74LS245DW	309024CM	\$.46	\$.40	\$.30
74LS273M	198643CM	\$.59	\$.45	\$.338	SN74LS273DW	309032CM	\$.71	\$.54	\$.365

### Compare Our Awesome Prices in Logic ICs!

Jameco Part No.	Product No.	Jameco® Price	Digi-Key® Price	Mouser® Price	Newark® Price	Minimum Savings	Discount
13565CM	CD4518, DIP	\$0.26	\$0.53	\$0.83	\$0.528	\$0.268	50.8%
13055CM	CD4049, DIP	\$0.29	\$0.53	\$0.53	\$0.528	\$0.238	45.1%
211908CM	74AC244, DIP	\$0.21	\$0.80	\$0.80	\$0.80	\$0.59	73.8%
261796CM	TI SN74AC244N, DIP	\$0.22	\$0.80	\$0.80	\$0.80	\$0.58	72.5%
265703CM	TI SN74AC373DW, SOIC	\$0.32	\$0.80	\$0.62	\$0.378	\$0.058	15.3%
235264CM	74ACT541, DIP	\$0.45	\$0.80	\$0.91	\$0.80	\$0.35	43.8%
245868CM	74ALS573, DIP	\$0.49	\$0.92	\$0.92	\$0.92	\$0.43	46.7%
281990CM	TI, SN74F244N, DIP	\$0.42	\$0.68	\$0.86	\$0.64	\$0.22	34.4%
309286CM	74LS368, DIP	\$0.39	\$0.96	\$0.96	\$0.96	\$0.57	59.4%
309059CM	TI, SN74LS374DW, SOIC	\$0.42	\$0.80	\$0.80	\$0.80	\$0.38	47.5%

These are single unit prices taken from each party's website on June 7, 2006, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

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† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi  
\* 10 pcs. in 74LS series IC cabinet kit, pg 25      \* 20 pcs. in 74LS series IC cabinet kit, pg 25

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-30%.


## 74LS Series (Continued) – The Low Power Schottky Logic.

DIP  SOIC 

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### Product Descriptions – Corresponds to Left Column Below

Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description	Base No.	Pins	Description
74LS368	16	Hex Buff. Inverting.	74LS390	16	4b Decade Counter	74LS540	20	Octal Buff. Invert.	74LS574	20	Oct D FF, Edge-Trig.
74LS373	20	Octal D Latch, 3-St.	74LS393	14	Dual 4b Binary Cntr.	74LS541	20	Octal Buff. Non-Inv.	74LS590	16	8b Bi Cntr. w/o Reg.
74LS374	20	Oct D FF, Edge-Trig.	74LS423	14	Mono Multivibrator	74LS573	20	Octal D Latch, 3-St.	74LS595	16	8b Shift Reg./OL
74LS377	20	Oct D FF w/ Clk En.							74LS682	20	8b Mag. ID Comp.
									74LS688	20	8b Mag. ID Comp.

### DIP Package

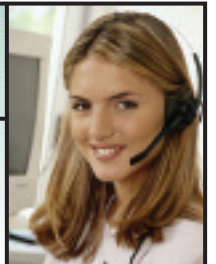
Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74ALS368AN	309286CM	\$.39	\$.332	\$.311	SN74ALS368AN	309278CM	\$.42	\$.364	\$.34
74LS373N	47600CM	\$.45	.39	.35	SN74LS373N	308460CM	\$.49	.421	.378
74LS374N	47634CM	\$.45	.39	.34	SN74LS374N	308478CM	\$.49	.421	.367
74LS377N	47669CM	\$.37	.24	.18	SN74LS377N	308486CM	\$.81	.68	.55
74LS390N	47722CM	\$.69	.59	.44	SN74LS390N	308494CM	\$.77	.64	.487
74LS393N	47731CM	\$.54	.46	.34	SN74LS393N	308507CM	\$.57	.50	.432
74LS423AN	309307CM	\$.95	.79	.592	SN74LS423N	309294CM	1.05	.87	.76
74LS540N	47861CM	\$.69	.59	.47	SN74LS540N	308515CM	\$.76	.64	.515
74LS541N	47870CM	\$.50	.429	.319	SN74LS541N	308523CM	\$.54	.463	.345
74LS573N	64418CM	2.05	1.85	1.55					
74LS574N	64426CM	2.15	1.89	1.69					
74LS590N	47909CM	4.55	4.06	3.01	SN74LS590N	308531CM	4.99	4.86	3.65
74LS595N	103974CM	5.25	4.46	3.35	SN74LS595N	308540CM	5.69	4.82	3.62
74LS645N	47950CM	1.59	1.31	1.00	SN74LS645N	308558CM	1.79	1.44	1.10
74LS682N	309260CM	1.05	.86	.66	SN74LS682N	309251CM	1.19	.956	.717
74LS688N	47984CM	1.25	1.05	.85	SN74LS688N	308574CM	1.39	1.15	.92

### SOIC Package

Value Offering – Save Up To 30%					Texas Instruments – Save 6-20%				
Cross Ref No.	Part No.	1	10	100	T.I. Product No.	Part No.	1	10	100
74LS373M	198651CM	\$.35	\$.27	\$.198	SN74LS373DW	309041CM	\$.45	\$.34	\$.255
74LS374M	198660CM	\$.35	.297	.225	SN74LS374DW	309059CM	\$.42	.356	.27
74LS393M	243184CM	\$.79	.60	.50					
74LS541WM	309235CM	\$.55	.415	.314	SN74LS541DW	309227CM	\$.60	.455	.341

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.



† Note: Fairchild now owns National Semi logic; Philips now owns Signetics; and On Semi is also known as Motorola; Renesas is the new company formed by the merger of Mitsubishi and Hitachi

## 74LS Series IC Kit

### Includes:

20-drawer component cabinet (319599CM), 20 clear plastic drawers (319601CM), 20 clear dividers (319610CM), pg 314 and 30 adhesive labels for drawers to identify parts in kit

**10 each:** 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

**20 each:** 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

Part No.	Description	Wt. (lbs.)	1	10
84961CM	420 pcs. 74LS IC kit	6.7	\$119.95	\$107.95
130391CM	Refill for 84961CM (420 pcs.)	2.0	99.99	89.99

## 74ALS Series

DIP  SOIC 

* Minimum order 10 pieces				
Part No.	Cross Ref.	Pkg.	Description	1 10 100
309868CM	74ALS00AM	SOIC-14	Quad 2-input NAND gates	\$.22 \$.191 \$.176
245294CM	74ALS00AN	DIP-14	Quad 2-input NAND gates	.39 .30 .23
309905CM	74ALS02AM	SOIC-14	Quad 2-input NOR gates	\$.31 .29 .243
43959CM	74ALS02N	DIP-14	Quad 2-input NOR gates	.30 .27 .202
309948CM	74ALS04BM	SOIC-14	Hex inverters	.31 .274 .198
245307CM	74ALS04BN	DIP-14	Hex inverters	.30 .26 .195
309972CM	74ALS05AM	SOIC-14	Hex inverters w/ open collector outputs	.31 .274 .205
245286CM	74ALS05AN	DIP-14	Hex inverters w/ open collector outputs	.32 .29 .217
310009CM	74ALS08M	SOIC-14	Quad 2-input AND gates	.31 .274 .198
43983CM	74ALS08N	DIP-14	Quad 2-input AND gates	.28 .25 .21
310025CM	74ALS10AM	SOIC-14	Triple 3-input NAND gates	\$.157 \$.118
245315CM	74ALS10AN	DIP-14	Triple 3-input NAND gates	.45 .38 .285
310041CM	74ALS11AM	SOIC-14	Triple 3-input AND gates	.31 .274 .202
245323CM	74ALS11AN	DIP-14	Triple 3-input AND gates	.44 .374 .28
310068CM	74ALS27M	SOIC-14	Triple 3-input NOR gates	.33 .282 .215
63503CM	74ALS27N	DIP-14	Triple 3-input NOR gates	.26 .22 .165

## 74ALS Series

DIP  SOIC 

Part No.	Cross Ref.	Pkg.	Description	1 10 100
245796CM	74ALS30AN	DIP-14	8-input NAND gate	\$.42 \$.36 \$.27
310084CM	74ALS32M	SOIC-14	Quad 2-input OR gates	.27 .208 .156
44134CM	74ALS32N	DIP-14	Quad 2-input OR gates	.40 .32 .23
310113CM	74ALS74AM	SOIC-14	Dual D-pos. edge-trig. flip-flops w/ preset & clear	.21 .166 .143
245892CM	74ALS74AN	DIP-14	Dual D-pos. edge-trig. flip-flops w/ preset & clear	.39 .30 .225
310156CM	74ALS86M	SOIC-14	Quad 2-input exclusive OR gates	.37 .299 .227
44214CM	74ALS86N	DIP-14	Quad 2-input exclusive OR gates	.25 .21 .157
310199CM	74ALS138M	SOIC-16	3 to 8 line decoder/demultiplexer	.46 .349 .269
309614CM	74ALS138N	DIP-16	3 to 8 line decoder/demultiplexer	.46 .349 .265
310228CM	74ALS139M	SOIC-16	2 to 4 line decoder/demultiplexer	.44 .349 .261
309649CM	74ALS139N	DIP-16	2 to 4 line decoder/demultiplexer	\$.59 .43 .369
245754CM	74ALS151N	DIP-16	1 of 8 line data selector/multiplexer	.48 .37 .29
309761CM	74ALS161N	DIP-16	4-bit decade/binary counter	.42 .34 .283
309702CM	74ALS174N	DIP-8	Quad D-type flip-flops w/ clear	.53 .398 .302
309729CM	74ALS175N	DIP-16	Quad D-type flip-flops w/ clear	.52 .398 .298
310261CM	74ALS240AM	SOIC-20	Octal invert. 3-state bus drivers	.39 .315 .294
245753CM	74ALS240AN	DIP-20	Octal invert. 3-state bus drivers	.63 .48 .36
310295CM	74ALS244AM	SOIC-20	Octal 3-state bus drivers	\$.59 .45 .301
245761CM	74ALS244AN	DIP-20	Octal 3-state bus drivers	\$.53 .45 .383
310332CM	74ALS245AM	SOIC-20	Octal 3-state bus transceivers	.59 .448 .336
245770CM	74ALS245AN	DIP-20	Octal 3-state bus transceivers	.50 .42 .315
44100CM	74ALS251N	DIP-16	3-st. 1 of 8 line data selector/multiplexer	.58 .49 .37
245788CM	74ALS258N	DIP-20	3-st. quad 1 of 2 line data selector/multip. (inverting)	.67 .57 .43
310359CM	74ALS273M	SOIC-20	Octal D-type edge-trig. flip-flops w/ clear inputs	.53 .448 .324
44118CM	74ALS273N	DIP-20	Octal D-type edge-trig. flip-flops w/ clear inputs	.62 .53 .40
310421CM	74ALS373M	SOIC-20	Octal D-type 3-st. transparent latches	.59 .448 .34
44142CM	74ALS373N	DIP-20	Octal D-type 3-st. transparent latches	.34 .29 .22
310455CM	74ALS374M	SOIC-20	Octal 3-st. D-type edge-trig. flip-flops	.41 .348 .261
245809CM	74ALS374AN	DIP-20	Octal 3-st. D-type edge-trig. flip-flops	.29 .25 .188
310471CM	74ALS520M	SOIC-20	8-bit comparator	1.12 .90 .77
245817CM	74ALS520N	DIP-20	8-bit comparator	.66 .56 .42



RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 74ALS, 74LVC, 74ALVC & 4000 Standard Logic

Color Code Legend			
New	Sale	Lower\$	QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



## 74ALS Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	DIP 			SOIC 		
				1	10	100	1	10	100
245817CM	74ALS520N	DIP-20	8-bit comparator	\$.66	\$.56	\$.42			
245825CM	74ALS521N	DIP-20	8-bit comparator with pullup resistors	.66	.56	.49			
245833CM	74ALS533N	DIP-20	Octal D-type transparent latches w/ 3-st. outputs	.66	.56	.42			
310535CM	74ALS540M	SOIC-20	Octal inverting buffers & line driv. w/ 3-st. outputs	1.22	1.03	.777			
245841CM	74ALS540N	DIP-20	Octal inverting buffers & line driv. w/ 3-st. outputs	.80	.68	.51			
310551CM	74ALS541M	SOIC-20	Octal buffers and line drivers w/3-st. outputs	.74	.62	.504			
245850CM	74ALS541N	DIP-20	Octal buffers & line drivers w/ 3-st. outputs	.91	.77	.58			
310578CM	74ALS573BM	SOIC-20	Octal D-type transp. latches w/ 3-st. outputs	.59	.448	.336			
245868CM	74ALS573BN	DIP-20	Octal D-type transp. latches w/ 3-st. outputs	.49	.414	.31			
310623CM	74ALS574AM	SOIC-20	Octal D-type edge-trig. flip-flops w/ 3-st. outputs	.59	.448	.336			
245876CM	74ALS574AN	DIP-20	Octal D-type edge-trig. flip-flops w/ 3-st. outputs	.66	.56	.419			
310640CM	74ALS645AM	SOIC-20	Octal bus transceivers	.74	.646	.484			
245884CM	74ALS645AN	DIP-20	Octal bus transceivers	.79	.67	.50			
309796CM	74ALS688N	DIP-20	8-bit identity comparator	2.95	2.39	1.79			

## Jameco's 3.3 Volt Logic



### 74LVC Series

For 3.3V power Supplies. This 3.3V logic series is offered in both 8 and 16-bit functions.



Part No.	Cross Ref.	Pkg.	Description	TSSOP 			SOIC 		
				1	10	100	1	10	100
313429CM	74LVC00AD	SOIC-14	Quad 2-input NAND gates	\$.38	\$.299	\$.21			
313470CM	74LVC04AD	SOIC-14	Hex inverters	.38	.307	.21			
313488CM	74LVC08AD	SOIC-14	Quad 2-input AND gates	\$.38	.278	.209			
313496CM	74LVC14AD	SOIC-14	Hex inverters w/ Schmitt triggers	.38	.307	.21			
313517CM	74LVC32AD	SOIC-14	Quad 2-input OR gates	\$.38	.278	.209			
313533CM	74LVC74AD	SOIC-14	Dual D-type flip-flops w/ set/reset	.38	.299	.21			
313576CM	74LVC125AD	SOIC-14	Quad bus buffers w/ 3-st.	.27	.216	.185			
313613CM	74LVC138AD	SOIC-16	3-to-8 line decoder/demultiplexer	.37	.299	.227			
313621CM	74LVC157AD	SOIC-16	2-to-1 line decoder/demultiplexer	.37	.299	.224			
313648CM	74LVC244AD	SOIC-20	Octal buffer/drivers w/ 3-st.	\$.41	.33	.278	.209		
313630CM	74LVC245AD	SOIC-20	4-bit sync binary counter	.41	.332	.252			
313584CM	74LVC374AD	SOIC-20	Octal D-type flip-flops w/ 3-st.	.41	.332	.249			
313541CM	74LVC541AD	SOIC-20	Octal buffer/drivers w/ 3-st.	.41	.332	.249			
313461CM	74LVC573AD	SOIC-20	Octal D-type latches w/ 3-st.	.41	.332	.249			
313824CM	74LVC574AD	SOIC-20	Octal D-type flip-flops w/ 3-st.	.41	.332	.252			
313947CM	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st.	.93	.794	.595			
313955CM	74LVC16245AT	TSSOP-48	16-bit bus transceiver w/ 3-st.	.95	.79	.71			
313963CM	74LVC16244AT	TSSOP-48	16-bit buffer/driver w/ 3-st. w/damp. res.	.94	.794	.595			

### 74ALVC Series

Ideal for Memory Interfacing. This 3.3V logic series is offered in both 8 & 16-bit functions.



Part No.	Cross Ref.	Pkg.	Description	TSSOP 			SOIC 		
				1	10	100	1	10	100
313980CM	74ALVC00D	SOIC-14	Quad 2-input NAND gates	\$.33	\$.266	\$.202			
314309CM	74ALVC00T	TSSOP-14	Quad 2-input NAND gates	.33	.265	.202			
314000CM	74ALVC04D	SOIC-14	Hex inverters	.33	.266	.199			
314229CM	74ALVC08D	SOIC-14	Quad 2-input AND gates	.33	.266	.202			
314341CM	74ALVC08T	TSSOP-14	Quad 2-input AND gates	.33	.265	.20			
314333CM	74ALVC32T	TSSOP-14	Quad 2-input OR gates	.37	.29	.217			
314253CM	74ALVC125	SOIC-14	Quad bus buffers w/ 3-state	.43	.324	.243			
314456CM	74ALVCH16244T	TSSOP-48	16-bit buffer/drivers w/ 3-state	1.04	.84	.63			
314499CM	74ALVCH16245T	TSSOP-48	16-bit bus transceivers w/ 3-state	1.04	.84	.64			
314528CM	74ALVCH16373T	TSSOP-48	16-bit D-type latches w/ 3-state	1.04	.84	.63			
314595CM	74ALVCH16374T	TSSOP-48	16-bit D-type flip-flops w/ 3-state	1.04	.84	.64			
314632CM	74ALVCH16425T	TSSOP-48	16-bit level-shifting transceivers	1.12	.95	.712			

## 4000 Series

Part No.	Cross Ref.	Pkg.	Description	DIP 			SOIC 		
				1	10	100	1	10	100
12562CM	CD4001N	DIP-14	Quad 2-input NOR gates	\$.32	\$.264	\$.209			
197261CM	CD4001M	SOIC-14	Quad 2-input NOR gates	.28	.24	.18			
12597CM	CD4007N	DIP-14	Dual comp. pair with inverter	.29	.25	.22			

\*\* 20 pcs. in 4000 series IC cabinet kit, pg 27

## 4000 Series (Continued)

Part No.	Cross Ref.	Pkg.	Description	DIP 			SOIC 		
				1	10	100	1	10	100
12634CM	CD4011N	DIP-14	Quad 2-input NAND gates	\$.29	\$.24	\$.19			
197270CM	CD4011M	SOIC-14	Quad 2-input NAND gates	*	.158	.119			
12677CM	CD4013N	DIP-14	Dual D flip-flops with set/reset	.35	.25	.22			
197288CM	CD4013M	SOIC-14	Dual D flip-flops with set/reset	\$.30	.28	.209	.133		
12706CM	CD4015N	DIP-16	Dual 4-stage static shift registers	.31	.249	.207			
12722CM	CD4016N	DIP-14	Quad bilateral switches	.28	.24	.18			
12749CM	CD4017N	DIP-16	Decade counter/divider	.39	.35	.31			
197296CM	CD4017M	SOIC-16	Decade counter/divider	.36	.31	.233			
12773CM	CD4018N	DIP-16	Presettable divide-by-N counter	.27	.232	.174			
12802CM	CD4020N	DIP-16	14-stage binary/ripple counter	.49	.39	.29			
197309CM	CD4020M	SOIC-16	14-stage binary/ripple counter	.51	.43	.323			
12829CM	CD4021N	DIP-16	8-stage static shift register	.29	.25	.188			
54666CM	CD4022N	DIP-16	Div. by 8-ctr./driver w/ 8-decoded outputs	.32	.30	.27			
12845CM	CD4023N	DIP-14	Triple 3-input NAND gates	.39	.332	.223			
12853CM	CD4024N	DIP-14	7-stage binary counter	.39	.299	.227			
353560CM	CD4026N	DIP-16	Decade counter/divider	.62	.52	.45			
12888CM	CD4027N	DIP-16	Dual JK master-slave flip-flops	.27	.22	.16			
197317CM	CD4027M	SOIC-16	Dual JK master-slave flip-flops	.45	.365	.274			
12909CM	CD4028N	DIP-16	BCD-to-decimal decoder	.33	.278	.194			
12925CM	CD4029N	DIP-16	Presettable up/down counter	.32	.282	.248			
197325CM	CD4029M	SOIC-16	Presettable up/down counter	.40	.34	.255			
12950CM	CD4040N	DIP-16	12-stage binary/ripple counter	.29	.246	.184			
197333CM	CD4040M	SOIC-16	12-stage binary/ripple counter	.51	.43	.323			
12984CM	CD4042N	DIP-16	Quad clocked D latches	.27	.232	.174			
12992CM	CD4043N	DIP-16	Quad NOR R-S latches tri-state	.30	.249	.186			
13004CM	CD4044N	DIP-16	Quad 3-state NAND R-S latches tri-state	.36	.306	.229			
13012CM	CD4046N	DIP-16	Micropower phase-locked loop	.30	.27	.23			
13039CM	CD4047N	DIP-14	Monostable/astable multivibrator	.34	.279	.256			
13055CM	CD4049N	DIP-16	Hex/buffer/converters (inverting)	.29	.24	.21			
197341CM	CD4049M	SOIC-16	Hex/buffer/converters (inverting)	.21	.166	.134			
13071CM	CD4050N	DIP-16	Hex/buffer/converters (non-inverting)	.30	.244	.235			
197350CM	CD4050M	SOIC-16	Hex/buffer/converters (non-inverting)	.31	.26	.195			
13098CM	CD4051N	DIP-16	Single 8-channel multi./demultiplexer	.45	.39	.35			
197368CM	CD4051M	SOIC-16	Single 8-channel multi./demultiplexer	.21	.17	.136			
13119CM	CD4052N	DIP-16	Diff. 4-channel multi./demultiplexer	.31	.26	.195			
13127CM	CD4053N	DIP-16	Triple 2-channel multi./demultiplexers	.24	.20	.15			
13151CM	CD4060N	DIP-16	14-stage ripple-carry binary	.41	.33	.25			
13186CM	CD4066N	DIP-14	Quad bilateral switches	.35	.25	.19			
197376CM	CD4066M	SOIC-14	Quad bilateral switches	.31	.232	.151			
13215CM	CD4067N	DIP-24	16-channel analog multi./demultiplexer	.85	.72	.54			
13231CM	CD4069N	DIP-14	Hex inverters (74C04)	.30	.24	.17			
197384CM	CD4069M	SOIC-14	Hex inverters (74C04)	.22	.167	.109			
13258CM	CD4070N	DIP-14	Quad exclusive-OR gates (74C86)	.32	.276	.196			
87847CM	CD4070M	SOIC-14	Quad exclusive-OR gates	.28	.24	.17			
13274CM	CD4071N	DIP-14	Quad 2-input OR gates	.32	.288	.259			
197392CM	CD4071M	SOIC-14	Quad 2-input OR gates	.22	.19	.143			
13354CM	CD4081N	DIP-14	Quad 2-input AND gates	.28	.26	.24			
197405CM	CD4081M	SOIC-14	Quad 2-input AND gates	.20	.166	.151			
13400CM	CD4093N	DIP-14	Quad 2-input NANDs Schmitt trigger	.29	.25	.19			
197413CM	CD4093M	SOIC-14	Quad 2-input NANDs Schmitt trigger	.30	.26	.19			
13426CM	CD4094N	DIP-16	8-stage shift-and-store bus register	.33	.284	.213			
13434CM	CD4098N	DIP-16	CMOS/MOS dual mono. multivibrator	.26	.24	.227			
13442CM	CD4099N	DIP-16	8-bit addressable latch	.28	.24	.18			
13469CM	CD4503N	DIP-16	Tri-state hex buffers (74C367) 80C97	.25	.21	.158			
13485CM	CD4510N	DIP-16	BCD up/down counter	.39	.30	.23			
13493CM	CD4511N	DIP-16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49			
197421CM	CD4511M	SOIC-16	BCD to 7-seg. latch/decoder/driver	.39	.36	.32			
13514CM	CD4512N	DIP-16	8-channel data selector	.43	.323	.242			
13522CM	CD4514N	DIP-24	4-bit latch/4-16 line decoder	.94	.79	.64			
13549CM	CD4516N	DIP-16	Binary up/down counter	.50	.40	.30			
13565CM	CD4518N	DIP-16	Dual BCD up counters	.26	.25	.23			
13581CM	CD4520N	DIP-16	Dual binary up counters	.33	.25	.20			
13590CM	CD4522N	DIP-16	Program. BCD divide-by-N counter	.30	.241	.192			
13602CM	CD4526N	DIP-16	Divide-by-N counter (binary)	.52	.473	.355			

\* 10 pcs. in 4000 series IC cabinet kit, pg 27

✦ Refurbished = Backed by Jameco

\*\* 20 pcs. in 4000 series IC cabinet kit, pg 27

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## 4000 Series (Continued)

DIP

SOIC

Part No.	Cross Ref.	Pkg.	Description	1	10	100
13611CM	CD4528N	DIP-16	Dual monostable multivibrators .....	\$1.08	\$ .924	\$ .693
13653CM	CD4538N*	DIP-16	Dual precision monostable multivibrators ..	.44	.37	.28
197430CM	CD4538M	SOIC-16	Dual precision monostable multivibrators.....	.33	.28	.21
13688CM	CD4541N	DIP-14	Oscillator/programmable timer .....	.30	.298	.241
13696CM	CD4543N*	DIP-16	BCD to 7-segment decoder (LCD) ...	<del>\$0.59</del> .34	.273	.204
13709CM	CD4553N	DIP-16	3-digit BCD counter .....	2.95	2.66	2.39
354600CM	CD4555N	DIP-16	Dual 1-4 decoder/demultiplexers (H.O.) ..	.31	.274	.227
354618CM	CD4556N	DIP-16	Dual 1-4 decoder/demultiplexers (L.O.) ..	.46	.349	.26
13768CM	CD4584N*	DIP-14	Hex Schmitt triggers .....	.39	.35	.29
197448CM	CD4584M	SOIC-14	Hex Schmitt triggers .....	.28	.25	.23
44257CM	CD40106N	DIP-14	Hex inverters Schmitt trigger (74C14) ..	.49	.465	.288
354589CM	CD40109N	DIP-16	Quad L to H volt. level shifters .....	.51	.415	.378

\*10 pcs. in 4000 series IC cabinet kit, below

## 4000 Series CMOS IC Kit

SAVE \$27

Includes:

20-drawer component cabinet (319599CM),  
20 clear plastic drawers (319601CM),  
20 clear dividers (319610CM), pg 314 and  
30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024,  
CD4027, CD4040, CD4046, CD4050, CD4051, CD4069,  
CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4056

Part No.	Description	Wt. (lbs.)	1	10
84970CM	300 pcs. 4000 series CMOS IC kit	6.1	\$79.95	\$71.95
130403CM	Refill for 84970CM (300 pcs.)	1.4	58.95	52.95

## 7400 Series

DIP

Part No.	Cross Ref.	Pkg.	Description	1	10	100
48979CM	7400N**	DIP-14	Quad 2-input NAND gates .....	\$ .69	\$ .59	\$ .48
49007CM	7401N	DIP-14	Quad 2-input NAND gates (O.C.) .....	.59	.57	.54
49015CM	7402N	DIP-14	Quad 2-input NOR gates .....	.75	.62	.495
49040CM	7404N*	DIP-14	Hex inverters .....	.65	.53	.48
49074CM	7405N*	DIP-14	Hex inverters (O.C.) .....	.69	.54	.49
49091CM	7406N**	DIP-14	Hex inverter buffer/drivers (O.C.) .....	.52	.45	.40
49120CM	7407N**	DIP-14	Hex buffer/drivers (O.C.) .....	.46	.41	.36
49146CM	7408N*	DIP-14	Quad 2-input AND gates .....	.93	.69	.53
49189CM	7410N*	DIP-14	Triple 3-input NAND gates .....	.44	.40	.29
295777CM	7411N	DIP-16	Triple 3-input AND gates .....	1.09	.98	.88
49402CM	7413N	DIP-14	Dual 4-input NAND gates Schmitt trigger	1.25	1.12	1.01
49437CM	7414N*	DIP-14	Hex inverters Schmitt trigger .....	.71	.639	.575
49630CM	7416N*	DIP-14	Hex inverter buffer/drivers (O.C.) .....	.57	.48	.36
49728CM	7417N*	DIP-14	Hex buffer/drivers (O.C. hi-voltage) .....	.91	.77	.58
50008CM	7420N*	DIP-14	Dual 4-input NAND gates .....	.62	.57	.50
50083CM	7425N	DIP-14	Dual 4-input NOR gates with strobe .....	.80	.683	.512
50139CM	7427N	DIP-14	Triple 3-input NOR gates .....	.68	.58	.43
50198CM	7428N	DIP-14	Quad 2-input NOR buffers .....	.76	.65	.48
50227CM	7430N*	DIP-14	8-input NAND gate .....	.62	.53	.396
50235CM	7432N*	DIP-14	Quad 2-input OR gates .....	.81	.70	.62
50315CM	7438N*	DIP-14	Quad 2-input NAND buffers (O.C.) .....	.60	.51	.46
50358CM	7440N	DIP-14	Dual 4-input NAND buffers .....	.55	.47	.35
50374CM	7442N	DIP-16	BCD-to-decimal decoder .....	1.39	1.12	.92
50403CM	7445N	DIP-16	BCD-to-decimal decoder/driver .....	1.45	1.24	.93
50411CM	7446N	DIP-16	BCD-to-7 segment decoder/driver (H.O.) ..	2.09	1.95	1.89
50420CM	7447N*	DIP-16	BCD-to-7 segment decoder/driver (L.O.) ..	1.49	1.29	.99
50518CM	7470N*	DIP-14	Edge-triggered JK flip-flop .....	.83	.79	.76
50526CM	7472N	DIP-14	AND gated JK master/slave flip-flop .....	1.95	1.67	1.25
50534CM	7473N	DIP-14	Dual JK flip-flops with clear .....	1.33	1.13	.84
50551CM	7474N**	DIP-14	Dual D flip-flops .....	.65	.54	.429
50577CM	7475N	DIP-16	4-bit bi-stable latch .....	2.95	2.75	2.49
50593CM	7476N	DIP-16	Dual JK flip-flops with preset and clear ....	2.95	2.65	2.39
50631CM	7483N	DIP-16	4-bit binary full adder .....	1.55	1.35	1.10
50657CM	7485N*	DIP-16	4-bit magnitude comparator .....	1.09	.87	.64

\*10 pcs. in 7400 series IC cabinet kit, right \*\*20 pcs. in 7400 series IC cabinet kit, right

# 4000, 7400 & 74C Standard Logic

## 7400 Series (Continued)

DIP

Part No.	Cross Ref.	Pkg.	Description	1	10	100
50665CM	7486N	DIP-14	Quad exclusive-OR gates .....	\$1.39	\$1.05	\$ .88
50681CM	7489N	DIP-16	64-bit RAM P 50ns .....	3.85	3.50	3.28
50690CM	7490N	DIP-14	Decade counter .....	1.49	1.27	.95
50737CM	7492N	DIP-14	Divide-by-12 counter .....	1.49	1.29	.97
50745CM	7493N	DIP-14	4-bit binary counter .....	1.49	1.34	1.19
50770CM	7495N*	DIP-14	4-bit parallel-access shift reg. (K155N) .....	.99	.86	.57
50796CM	7497N	DIP-16	Synch. 6-bit binary rate multipliers .....	2.69	2.32	1.71
49234CM	74107N*	DIP-14	Dual JK flip-flop with clear .....	.52	.44	.39
49293CM	74116N	DIP-24	Dual 4-bit latches with clear .....	2.15	1.82	1.38
49322CM	74121N	DIP-14	Monostable multivibrator .....	1.25	1.15	1.00
49357CM	74123N*	DIP-16	Dual retriggerable mono. multivibrator .....	1.25	1.20	.99
49373CM	74125N	DIP-14	Quad bus buffer tri-state (DM8093N) .....	1.19	1.09	.95
49411CM	74132N*	DIP-14	Quad 2-input NAND Schmitt trigger .....	1.29	.99	.70
49496CM	74148N	DIP-16	8 to 3 line octal priority encoder .....	1.24	1.05	.79
49509CM	74150N	DIP-24	16 to 1 line multiplexer .....	2.15	1.92	1.71
49525CM	74151N*	DIP-16	8-input multiplexer .....	.75	.63	.472
49550CM	74153N*	DIP-16	Dual 4/1 data selector/multiplexer .....	.84	.62	.429
49568CM	74154N	DIP-24	4 to 16 line decoder/demultiplexer .....	2.25	1.95	1.75
49605CM	74157N*	DIP-16	Quad 2/1 data selector .....	.97	.82	.62
49648CM	74160N*	DIP-16	Decade counter with asynch. clear .....	.52	.46	.41
49664CM	74161N	DIP-16	Synchronous 4-bit counter w/ direct clear ..	.77	.69	.55
49672CM	74163N	DIP-16	Fully synchronous 4-bit counter .....	.89	.76	.57
49681CM	74164N	DIP-14	8-bit serial shift register .....	.94	.79	.59
49699CM	74165N	DIP-16	8-bit serial shift register, parallel load .....	1.09	.92	.69
49779CM	74174N*	DIP-16	Hex D-type flip-flop with clear .....	1.09	.92	.69
49795CM	74175N*	DIP-16	Quad D-type flip-flop with clear .....	.94	.79	.71
49832CM	74180N	DIP-14	9-bit odd/even parity generator/checker ...	2.89	2.46	1.84
49841CM	74181N	DIP-24	Arithmetic logic unit/function generator ...	3.59	3.25	2.93
49883CM	74189N	DIP-16	64-bit RAM tri-state (DM8599N) .....	3.39	2.89	2.17
49904CM	74191N	DIP-16	Binary up/down counter .....	2.05	1.73	1.30
49912CM	74192N	DIP-16	Decade up/down counter with clear .....	3.69	3.39	3.19
49939CM	74193N	DIP-16	Binary up/down counter with clear .....	1.99	1.75	1.60
49955CM	74194N	DIP-16	4-bit bi-directional shift register .....	1.75	1.49	1.11
49963CM	74195N*	DIP-16	4-bit parallel-access shift register .....	1.65	1.40	1.05
50171CM	74279N*	DIP-16	Quad set-reset latch .....	1.79	1.52	1.14
88225CM	SDLD001A	—	Texas Instruments TTL Data Book .....	34.95	31.49	29.95

\*10 pcs. in 7400 series IC cabinet kit, below

## 7400 Series IC Kit

Includes:

20-drawer component cabinet (319599CM),  
20 clear plastic drawers (319601CM),  
20 clear dividers (319610CM), pg 314 and  
30 adhesive labels for drawers to identify parts in kit

10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420,  
7430, 7432, 7438, 7447, 7470, 7485, 7495, 74107,  
74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279

20 each: 7400, 7404, 7406, 7407, 7474

Part No.	Description	Wt. (lbs.)	1	10
84953CM	350 pcs. 7400 IC kit	6.2	\$149.95	\$134.95

## 74C Series

DIP

Part No.	Cross Ref.	Pkg.	Description	1	10	100
44222CM	74C00N	DIP-14	Quad 2-input NAND gate .....	\$1.15	\$ .98	\$ .73
44231CM	74C04N	DIP-14	Hex inverter (CD4069) .....	1.05	.89	.67
44257CM	74C14N	DIP-14	Hex inverter Schmitt trigger (CD40106) .....	.49	.465	.288
44441CM	74C74N	DIP-14	Dual D flip-flop .....	2.25	1.53	1.16
44361CM	74C221N	DIP-16	Dual monostable multivibrator .....	3.69	3.19	2.50
13469CM	74C367N	DIP-16	Hex buffer tri-state (80C97/CD4503) .....	.25	.21	.158
44396CM	74C373N	DIP-20	Octal D-type flip-flop with clear tri-state ...	3.85	3.11	2.44
44409CM	74C374N	DIP-20	Octal D-type flip-flop tri-st. (INS82C06N) ..	2.49	2.12	1.59
44564CM	74C922N	DIP-18	16-key keyboard encoder (INS8245N) .....	7.05	6.79	6.19
44572CM	74C923N	DIP-20	20-key keyboard encoder (INS8246N) .....	6.29	5.85	5.55
44581CM	74C925N	DIP-16	4-digit CTR w/ MUX D segment driver ....	15.59	13.25	9.95
44599CM	74C926N	DIP-18	4-digit CTR w/ MUX D segment driver ....	10.49	9.49	8.59

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 74S, Dallas, MPU Supervisory, Power Mgmt & RS-232

Color Code Legend			
New	Sale	Lower\$	QtySave

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## 74S Series

Part No.	Cross Ref.	Pkg.	Description	DIP		
				1	10	100
48531CM	74S188N	DIP-16	256-bit (32 x 8) PROM O.C. (27S18) .....	\$4.39	\$3.95	\$3.45
48557CM	74S189N	DIP-16	64-bit (16 x 4) RAM tri-state (27S03) .....	3.99	3.90	3.86
48696CM	74S287N	DIP-16	1k-bit (256 x 4) PROM tri-state (TBP24S10) .....	11.95	10.75	9.69
48717CM	74S288N	DIP-16	256-bit (32 x 8) PROM tri-st. (TBP18S030N) .....	8.15	7.03	6.04
48805CM	74S387N	DIP-16	1k-bit (256 x 4) PROM O.C. (TBP24SA10N) ..	3.09	2.79	2.55
52513CM	74S428N	DIP-28	System contr./bus driver (B228) .....	3.69	3.19	2.36
48864CM	74S472N	DIP-20	4k-bit (512 x 8) PROM tri-st. (TBP28S42N) .....	12.95	11.65	10.49
48910CM	74S571N	DIP-16	2k-bit (512 x 4) PROM tri-st. (AM27S13) .....	5.69	5.45	4.95
48928CM	74S573N	DIP-18	4k-bit (1024 x 4) PROM tri-st. (53S441J) .....	4.25	3.61	3.25

## Dallas Semiconductor

Part No.	Product No.	Pkg.	Description	1	10	100
114198CM	DS1210	DIP-8	NV controller chip .....	\$3.79	\$3.07	\$2.07
114219CM	DS1213C	DIP-28	Smart socket .....	19.05	14.54	11.50
114227CM	DS1213D	DIP-32	Smart socket .....	19.95	17.95	15.95
133410CM	DS1216C	DIP-28	Smart watch/RAM .....	30.55	24.55	14.70
114331CM	DS1232	DIP-8	Micromonitor chip .....	1.85	1.34	1.00
133444CM	DS1286	DIP-28	Watchdog timekeeper .....	22.15	16.90	10.75
76646CM	DS1287	DIP-24	Real time clock chip .....	7.25	6.15	5.53
176778CM	DS1302	DIP-8	Trickle charge time keeping .....	2.75	2.10	1.28
114374CM	DS1387	DIP-24	RAMfiled real time clock .....	8.59	7.30	6.60
114382CM	DS1620	DIP-8	Digital thermometer and thermostat .....	5.35	4.42	3.39
245500CM	DS1705ESA	SOIC-8	Micromonitor chip .....	\$4.49	.99	.89
282749CM	DS1708ESA	SOIC-8	Micromonitor chip .....	1.85	1.40	1.10
133452CM	DS12887	DIP-24	Real time clock chip .....	8.15	6.93	5.19
299997CM	DS12887A	DIP-24	Real time clock chip .....	8.15	6.22	4.15
114403CM	DS80C320-MCC	DIP-40	High speed LP micro .....	12.09	9.27	5.71

♣ Pull = Extra Savings

## MPU Supervisory

Part No.	Mfr.	Cross Ref.	Pkg.	Description	Package (see pg 29)		
					1	10	100
106219CM	MAX	MAX690CPA	DIP-8	Watchdog timer, 4.4V .....	\$5.45	\$4.64	\$3.16
106227CM	MAX	MAX691CPE	DIP-16	Watchdog timer, 4.65V .....	5.75	3.85	3.23
288403CM	MAX	MAX693CPE	DIP-16	Watchdog timer, 4.4V .....	6.25	4.97	3.23
297684CM	MAX	MAX694CPA	DIP-8	Watchdog timer, 4.65V .....	5.99	4.59	2.98
297748CM	MAX	MAX695CPE	DIP-16	Watchdog timer, 4.65V .....	6.25	5.82	5.24
312418CM	MAX	MAX699CPA	DIP-8	Watchdog timer, 5V .....	3.95	3.55	3.15
243627CM	MAX	MAX705CPA	DIP-8	Watchdog timer, 4.65V .....	3.95	3.36	2.52
243635CM	MAX	MAX705CSA	SOIC-8	Watchdog timer, 4.65V .....	4.15	3.71	2.78
297705CM	MAX	MAX706CPA	DIP-8	Watchdog timer, 4.65V .....	4.35	3.46	2.24
251774CM	MAX	MAX707CPA	DIP-8	Watchdog timer, 4.65V .....	3.89	3.10	2.00
251758CM	MAX	MAX707CSA	SOIC-8	Watchdog timer, 4.65V .....	3.69	3.33	2.48
298020CM	MAX	MAX734CPA	DIP-8	Flash memory prog., 12V .....	3.69	3.49	3.32
298046CM	MAX	MAX734CSA	SOIC-8	Flash memory prog., 12V .....	2.55	2.21	2.07
266861CM	MAX	MAX809T	SOT-23	3-pin reset monitor, 2.5V - 5V .....	.68	.60	.45
245391CM	MAX	MAX810S	DIP-23	3-pin reset monitor, 2.5V - 5V .....	.75	.71	.66
245497CM	MAX	MAX813LCSA	SOIC-8	Watchdog timer, 4.65V .....	2.79	2.17	1.49
106260CM	MAX	MAX1232CPA	DIP-8	Watchdog timer, 4.65V - 4.75V .....	2.85	2.25	1.55
282677CM	MAX	DS1233-5	TO-92	Econo reset, 5V .....	1.15	1.05	.94
290221CM	MAX	DS1233D-5	TO-92	Econo reset, 5V .....	1.13	1.10	.95
282651CM	MAX	DS1233M-5	TO-92	Econo reset, 5V .....	1.15	1.00	.90
282685CM	MAX	DS1233-10	TO-92/4	Econo reset, 5V .....	1.15	1.00	.97
310316CM	MAX	DS1708ESA	SOIC-8	Micro monitor, 3.3V - 5V .....	1.69	1.56	1.35
298089CM	MAX	DS1811-5	TO-92	Econo reset, 5V .....	.91	.69	.56
298118CM	MAX	DS1811-10	TO-92	Econo reset, 5V .....	.91	.68	.63
298100CM	MAX	DS1811-15	TO-92	Econo reset, 5V .....	.91	.75	.73

♣ Jameco Value Offering

## Power Management

Part No.	Mfr.	Cross Ref.	Pkg.	Description	Package (see pg 29)		
					1	10	100
291670CM	MAX	MAX712CPE	DIP-16	NiCd/NiMH battery fast chrg controller .....	\$6.15	\$5.36	\$5.04
312821CM	MAX	BQ2003S	SOIC-16	Fast Charge IC .....	4.09	3.33	2.62
312848CM	TI	BQ2004PN	DIP-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV ..	4.49	3.79	3.66
312830CM	TI	BQ2004SN	SOIC-16	NiMH/NiCd switchmode chrg mgmt w/ neg dV ..	4.15	3.85	3.73
312901CM	TI	BQ2010SN-D107	SOIC-16	Gas Gauge IC .....	\$6.29	4.15	3.73
312899CM	TI	BQ2013HSA4514	SOIC-16	Gas Gauge IC .....	6.75	6.58	6.25
312856CM	TI	BQ2014SN-D120	SOIC-16	NiMH/NiCd gas gauge w/ 1-wire (DQ) i/f ..	7.19	6.84	6.49
312928CM	TI	BQ2018TS-E	TSSOP-8	Rechargeable battery power monitor ..	3.89	3.38	3.21
312936CM	TI	BQ2019PW	TSSOP-8	Rechargeable battery power monitor ..	3.99	3.46	3.29
312881CM	TI	BQ2040SN-D111	SOIC-16	Li-Ion/NiMH/NiCd gas gauge w/ smbus .....	7.19	6.84	6.50
312961CM	MAX	UC3906N	DIP-16	Linear lead acid battery charger .....	5.15	4.89	4.63
312944CM	TI	BQ24004PWP	TSSOP-20	Li-Ion battery charger .....	3.45	3.20	3.05
241808CM	MAX	ICL7665SCPA	DIP-8	2-16V voltage detector .....	2.45	2.20	1.38
241816CM	MAX	ICL7673CPA	DIP-8	Auto battery backup switch, 2.5V to 15V .....	.93	.92	.75

♣ Jameco Value Offering

## RS-232 Drivers/Receivers

Part No.	Mfr.	Cross Ref.	Pkg.	Description	SSOP Other packages (see pg 29)		
					1	10	100
142535CM	MAX	HIN202CP	DIP-16	5V, 120kpbs, w/ 0.1uF ext. caps .....	\$2.65	\$2.10	\$1.57
244232CM	MAX	MAX202CSE	SOIC-16	5V, 120kpbs, w/ 0.1uF ext. caps .....	1.55	1.25	.94
244241CM	MAX	MAX202EPE	DIP-16	5V, 120kpbs, w/ 0.1uF ext. caps .....	1.29	1.14	.99
244259CM	MAX	MAX202ESE	SOIC-16	5V, 120kpbs, w/ 0.1uF ext. caps .....	1.29	1.14	.99
299794CM	MAX	MAX207CWG	SOIC-24	5V, w/ 0.1uF ext. caps .....	5.79	4.89	3.66
282790CM	MAX	MAX211CAI	SSOP-28	5V, w/ 0.1uF ext. caps .....	\$4.19	3.69	3.33
312215CM	MAX	MAX11ECAI	SSOP-28	5V, ±15kV ESD-protected .....	7.35	5.75	4.15
291215CM	MAX	MAX222CPN	DIP-18	5V, 200kpbs, multichannel .....	4.35	3.08	2.55
291303CM	MAX	MAX222CWN	SOIC-18	5V, 200kpbs, multichannel .....	3.89	3.09	2.42
24811CM	MAX	MAX232CPE	DIP-16	5V, 200kpbs, multichannel .....	2.19	1.85	1.45
318959CM	MAX	MAX232CPE	DIP-16	5V, 120kpbs, multichannel .....	2.89	1.77	1.49
106147CM	MAX	MAX232CWE	SOIC-16	5V, 120kpbs, multichannel .....	2.65	2.09	1.36
256401CM	MAX	MAX232DR	SOIC-16	5V, 120kpbs, dual driver/receiver .....	.76	.66	.63
106155CM	MAX	MAX232EPE	DIP-16	5V, 120kpbs, multichannel .....	3.19	2.51	1.73
106163CM	MAX	MAX233CPP	DIP-20	5V, 120kpbs, multichannel .....	6.19	4.99	4.66
106171CM	MAX	MAX235CPG	DIP-24	5V, 120kpbs, multichannel .....	13.39	10.62	7.15
106180CM	MAX	MAX238CNG	DIP-24	5V, 120kpbs, multichannel .....	6.29	4.79	3.28
276883CM	MAX	MAX232CDWR	SOIC-20	3-5.5V, 120kpbs, auto shutdown .....	1.59	1.52	1.45
193691CM	MAX	DS1488D	SOIC-14	15V, quad line driver .....	.20	.19	.17
23157CM	MAX	DS1488N	DIP-14	15V, quad line driver .....	.29	.25	.22
16361CM	MAX	DS14C88N	DIP-14	5-12V, quad line driver .....	.65	.58	.55
23181CM	MAX	DS1489N	DIP-14	5V, quad line receiver .....	.23	.215	.20
16379CM	MAX	DS14C89N	DIP-14	5V, quad line receiver .....	1.00	.73	.55
255128CM	MAX	MAX3221CAE	SSOP-16	3-5.5V, 120kpbs, auto shutdown .....	2.05	1.93	1.82
277042CM	MAX	MAX3221ECAE	SSOP-16	3-5.5V, 120kpbs, auto shutdown .....	2.65	2.27	2.13
299760CM	MAX	MAX3222CAP	SSOP-20	3-5.5V, 1Mbps, ±15kV ESD protected ..	3.35	2.69	1.83
276963CM	MAX	MAX3222CDBR	SSOP-20	3-5.5V, 1Mbps, ±15kV ESD protected ..	1.95	1.85	1.74
276859CM	MAX	MAX3232CDR	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected ..	1.69	1.61	1.45
276867CM	MAX	MAX3232CSE	SOIC-16	3-5.5V, 1Mbps, ±15kV ESD protected ..	3.15	2.85	2.35
276795CM	MAX	MAX3238CDBR	SSOP-28	3-5.5V, 250kpbs, auto shutdown .....	1.55	1.45	1.35
276824CM	MAX	MAX3238IDBR	SSOP-28	3-5.5V, 250kpbs, auto shutdown .....	2.05	1.85	1.70
276761CM	MAX	MAX3243CDWR	SOIC-28	3-5.5V, 200kpbs, auto shutdown .....	1.31	1.23	1.14
276779CM	MAX	MAX3243IDWR	SOIC-28	3-5.5V, 200kpbs, auto shutdown .....	1.69	1.61	1.45
299911CM	MAX	DS14C232CM	SOIC-16	5V, LP, TIA/EIA dual driver/receiver ..	1.05	.94	.86
235301CM	MAX	DS14C232CN	DIP-16	5V, LP, TIA/EIA dual driver/receiver ..	.78	.77	.76
277982CM	MAX	SN75185DW	SOIC-20	10V, 120kpbs, multiple driver/receiver ..	.60	.50	.40
256081CM	MAX	SN75185N	DIP-20	10V, 120kpbs, multiple driver/receiver ..	.61	.52	.39
245366CM	MAX	SN75C188D	SOIC-14	4.5-15V, quad LP line driver .....	.56	.42	.31
23181CM	MAX	SN75189N	DIP-14	5V, quad line receiver .....	.23	.215	.20
193703CM	MAX	SN75189D	SOIC-14	5V, quad line receiver .....	.46	.29	.15
245374CM	MAX	SN75C189D	SOIC-14	7V, quad LP line receiver .....	.56	.42	.31
278205CM	MAX	TL145406N	DIP-16	7.5-15V, 120kpbs, triple driver/receiver ..	.88	.81	.60
25099CM	MAX	MC145406P	DIP-16	5-12V, EIA-232-DV-28 driver/receiver ..	1.95	1.75	1.59

\* 10 pcs. in Linear series IC cabinet kit, pg 34 ♣ Jameco Value Offering

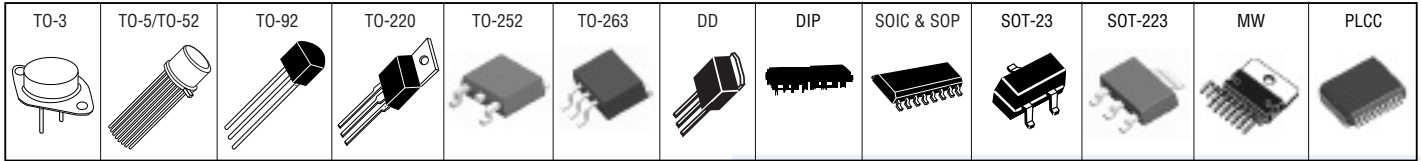
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






































## Manufacturer Cross Reference Table

Jameco Value Offering 

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI

## RS-422/485 Drivers/Receivers

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
299815CM	+	LTC485CS8 	SOIC-8	RS-485 LP transceiver, 5V .....	\$2.59	\$1.76	\$1.45
299807CM	+	LTC485CN8 	DIP-8	RS-485 LP transceiver, 5V .....	1.35	1.17	.91
276605CM	+	SP490CN 	SOIC-8	RS-485/422 LP transceiver, 12V .....	2.25	1.80	1.15
276576CM	MAX	MAX490CPA 	DIP-8	RS-485/422 LP transceiver, 12V .....	2.25	1.78	1.68
276550CM	MAX	MAX491CPD 	DIP-14	RS-485/422 LP transceiver, 12V .....	2.55	2.05	1.85
311837CM	MAX	MAX1480BEP 	DIP-28	RS-485/422 data interface, 5V .....	28.75	22.29	20.72
244179CM	ADI	ADM1485JN 	DIP-8	RS-485 diff bus transceiver, 5V .....	1.95	1.60	1.20
244187CM	ADI	ADM1485JR 	SOIC-8	RS-485 diff bus transceiver, 5V .....	1.55	1.40	1.25
244195CM	+	MAX1487CPA 	DIP-8	RS-485/422 LP transceiver, 12V .....	2.25	1.77	1.30
244208CM	+	MAX1487CSA 	SOIC-8	RS-485/422 LP transceiver, 12V .....	2.15	1.99	1.53
39571CM	+	AM26LS30 	DIP-16	RS-422/423 line driver, 5V .....	2.39	2.05	1.76
39589CM	+	AM26LS31CN 	DIP-16	RS-422 quad diff line driver, 5V .....	.61	.54	.43
243555CM	+	AM26LV31CD 	SOP-16	RS-422 quad diff line driver, 3.3V .....	.72	.65	.63
39600CM	+	AM26LS32CN 	DIP-16	RS-422/423 quad diff line receiver, 5V .....	.62	.53	.42
272217CM	+	DS26LS32ACN 	DIP-16	RS-422/423 quad diff line receiver, 5V .....	.43	.40	.30
252427CM	+	MC3486B 	SOIC-16	RS-422/423 quad diff line receiver, 5V .....	.62	.53	.39
25232CM	+	MC3486P 	DIP-16	RS-422/423 quad diff line receiver, 5V .....	.66	.56	.38
252961CM	+	MC3487D 	SOIC-16	RS-422 quad diff line driver, 5V .....	.46	.39	.29
25259CM	+	MC3487P 	DIP-16	RS-422/423 quad line driver, 5V .....	.62	.52	.39
298142CM	NSC	DS3691M 	SOIC-16	RS-422/423 quad line driver, 5V .....	1.79	1.35	1.00
298134CM	NSC	DS3691N 	DIP-16	RS-422/423 quad line driver, 5V .....	1.11	1.03	.77
144039CM	NSC	DS3695N 	DIP-8	RS-422/423 multipoint transceiver, 5V ..	1.59	1.19	.90
235336CM	NSC	DS3696N 	DIP-8	RS-422/423 multipoint transceiver, 5V ..	2.09	1.56	1.17
299671CM	NSC	DS8921AN 	DIP-8	RS-422 diff line driver/receiver pair, 5V ..	1.46	1.10	.82
298169CM	NSC	DS8921M 	SOIC-8	RS-422 diff line driver/receiver pair, 5V ..	1.34	1.00	.75
299701CM	NSC	DS8922AM 	SOIC-16	RS-422 dual diff line driver/rec pair, 5V ..	1.45	1.10	.80
299719CM	NSC	DS8922AN 	DIP-16	RS-422 dual diff line driver/rec pair, 5V ..	1.99	1.53	1.15
299727CM	NSC	DS8923AM 	SOIC-16	RS-422 dual diff line driver/rec pair, 5V ..	1.49	1.13	.83
309753CM	NSC	DS8923AN 	DIP-16	RS-422 dual diff line driver/rec pair, 5V ..	1.55	1.15	.85
235344CM	+	DS36C278N 	DIP-8	RS-485 LP multipoint transceiver, 5V ..	2.35	1.76	1.55
50948CM	+	SN75174N 	DIP-16	RS-422 quad diff line driver, 5V .....	.76	.65	.48
245340CM	+	SN75175D 	SOIC-16	RS-422/423 quad diff line rec, 5V .....	.59	.50	.38
50956CM	TI	SN75175N 	DIP-16	RS-422/423 quad diff line rec, 5V .....	.72	.56	.45
243715CM	+	SN75LBC175N 	DIP-16	RS-422/423/485 quad diff line rec, 5V ...	2.45	2.40	2.32
50964CM	+	SN75176BN 	DIP-8	RS-422 diff line bus transceiver, 5V .....	.65	.55	.45
251053CM	TI	SN75LBC176AD 	SOIC-8	RS-485 diff bus transceiver, 5V .....	2.65	2.60	2.54
244136CM	TI	SN75LBC176AP 	DIP-8	RS-485 diff bus transceiver, 5V .....	1.75	1.64	1.57
251846CM	TI	SN75LBC176D 	SOIC-8	RS-485 diff bus transceiver, 5V .....	1.25	1.14	.85
243723CM	TI	SN75LBC176P 	DIP-8	RS-485 diff bus transceiver, 5V .....	1.48	1.19	1.05
235387CM	NSC	DS96172CN 	DIP-16	RS-485/422 quad diff line driver, 5V ..	2.95	2.75	2.50
235395CM	NSC	DS96174CN 	DIP-16	RS-485/422 quad diff line driver, 5V ..	1.95	1.45	1.30
235408CM	NSC	DS96176CN 	DIP-8	RS-485/422 diff bus driver, 5V .....	1.55	1.43	1.35



















































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## Interface Series

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
310498CM	TI	XTR101AP 	DIP-14	11.6-40V, 2-wire transmitter .....	\$13.19	\$12.00	\$10.92
310501CM	TI	XTR101AU 	SOIC-16	11.6-40V, 2-wire transmitter .....	15.45	15.05	14.66
312021CM	TI	XTR105AP 	DIP-14	7.5-30V, current transmitter .....	7.29	7.19	6.91
116206CM	+	TC426CPA 	DIP-8	4.5-18V, dual MOSFET driver .....	1.03	.93	.85
245593CM	+	TC426EOA 	SOIC-8	4.5-18V, dual MOSFET driver .....	.99	.95	.89
242077CM	+	TC428CPA 	DIP-8	4.5-18V, dual MOSFET driver .....	.87	.85	.82
242085CM	+	MAX626CPA 	DIP-8	4.5-18V, dual MOSFET driver .....	.97	.88	.80
242093CM	+	MAX627CPA 	DIP-8	4.5-18V, dual MOSFET driver .....	.90	.87	.85
246692CM	+	LT1030N 	DIP-14	5-15V, quad LP line driver .....	1.80	.73	.55
310754CM	MCH	TC1426COA 	SOIC-8	4.5-16V, dual MOSFET driver .....	.68	.66	.64
310771CM	+	TC1426CPA 	DIP-8	4.5-16V, dual MOSFET driver .....	.86	.84	.82
12239CM	ISL	CA3161E 	DIP-16	5V, BCD 7-seg. decoder driver .....	2.95	2.65	2.39
310480CM	ON	MC33152D 	SOIC-8	20V, dual MOSFET driver .....	.98	.91	.72
310439CM	ON	MC33152P 	DIP-8	20V, dual MOSFET driver .....	1.05	.97	.72
25216CM	NSC	MC3479P 	DIP-16	7.2-16.5V, stepper motor driver .....	3.79	3.22	2.55
24230CM	NSC	LM3914N 	DIP-18	25V, dot/bar display driver .....	2.39	2.05	1.94
300003CM	NSC	LM3914N-1 	DIP-18	25V, dot/bar display driver .....	1.65	1.54	1.38
246625CM	NSC	LM3914V 	PLCC-20	25V, dot/bar display driver .....	2.35	2.00	1.50
24256CM	NSC	LM3915N 	DIP-18	25V, dot/bar display driver .....	2.19	1.64	1.23
24272CM	NSC	LM3916N 	DIP-18	3-25V, dot/bar display driver .....	2.19	1.65	1.22
291320CM	+	MIC4420CM 	SOIC-8	4.5-18V, 6A LS MOSFET driver .....	.81	.79	.59
291434CM	+	MIC4420CN 	DIP-8	4.5-18V, 6A LS MOSFET driver .....	1.23	1.12	.84
251029CM	+	TC4420COA 	SOIC-8	4.5-18V, 6A LS MOSFET driver .....	1.20	1.15	1.10
310965CM	+	TC4422CPA 	DIP-8	4.5-18V, 9A LS MOSFET driver .....	1.75	1.60	1.48
310800CM	+	TC4422EPA 	DIP-8	4.5-18V, 9A LS MOSFET driver .....	1.85	1.48	1.33
291590CM	+	MIC4427CM 	SOIC-8	4.5-18V, dual 1.5A LS MOSFET driver ..	.87	.83	.62
291645CM	+	MIC4429CN 	DIP-8	4.5-18V, 6A LS MOSFET driver .....	1.45	1.28	1.21
243379CM	+	MM5453N 	DIP-40	3-10V, LCD driver .....	2.69	2.44	2.10
314691CM	+	ICL7136CPL 	DIP-40	15V, 3 1/2 digit LCD driver .....	3.65	3.20	2.90
313453CM	+	ICM7218AJ 	DIP-40	6.5V, 4 digit LCD driver .....	2.49	2.25	2.10
313437CM	+	ICM7218AJ 	DIP-28	5V, 8 digit LCD driver .....	4.25	4.05	3.85
313445CM	+	ICM7218BJ 	DIP-28	5V, 8 digit LCD driver .....	5.69	5.50	5.25
312160CM	MAX	MAX7219CNG 	DIP-24	5V, 8 digit LCD driver .....	8.95	6.95	4.65
312178CM	MAX	MAX7219CNG 	SO-24	5V, 8 digit LCD driver .....	8.65	7.00	6.15
313322CM	+	FAN7228API 	DIP-28	5V, 8 digit LCD driver .....	3.05	2.80	2.10
241875CM	+	FAN8082 	DIP-8	18V, bi-directional DC motor driver .....	.65	.50	.40
241867CM	+	FAN8200 	DIP-14	18V, bi-directional step motor driver ..	.60	.58	.56
53663CM	+	9368 	DIP-16	7V, 7-segment decoder driver .....	3.99	3.49	3.20
256727CM	TI	SN65LVDS31D 	SOIC-16	3.3V, HS differential line driver .....	1.49	1.37	1.25
256719CM	TI	SN65LVDS048AD 	SOIC-16	3.3V, quad LVDS line receiver .....	2.75	2.52	2.29
272188CM	TI	SN65LVDS050D 	SOIC-16	3.3V, HS diff line driver/receiver .....	3.59	3.35	3.13
241824CM	+	MC14489BP 	DIP-20	5V, 7-segment LED display driver .....	3.75	3.64	3.52
287831CM	+	MC14489BW 	SOG-20	5V, 7-segment LED display driver .....	3.39	3.19	3.05
50884CM	+	SN75154N 	DIP-16	5-12V, quad line receiver .....	.68	.51	.38
277907CM	+	SN75172N 	DIP-16	5V, quad diff line driver .....	.94	.87	.65
245331CM	+	SN75173D 	SOIC-16	5V, quad diff line receiver .....	1.15	.98	.73
277958CM	+	SN75179BD 	SOIC-8	5V, quad diff line driver/receiver .....	1.07	.90	.67
277940CM	+	SN75179BP 	DIP-8	5V, diff line driver/receiver .....	.67	.61	.57
278133CM	TI	SN75LBC180AN 	DIP-14	0.3-6V, diff driver/receiver .....	2.15	2.10	2.05
277966CM	+	SN75182N 	DIP-14	5V, dual diff line receiver .....	.63	.58	.43
277974CM	+	SN75183N	DIP-14	5V, dual diff line driver .....	.91	.84	.74
51027CM	+	SN75451AN	DIP-8	7V, dual peripheral AND driver .....	.34	.31	.19

◆ Jameco Value Offering  = Limited Quantity Available

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## Interface Series (Continued)

Package (see pg 31)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
51035CM	+	SN75452N	DIP-8	7V, dual peripheral NAND driver	\$ .45	\$ .23	\$ .21
278002CM	+	SN75453BP	DIP-8	7V, dual peripheral OR driver	.30	.25	.20
277317CM	+	SN75454BP	DIP-8	7V, dual peripheral NOR driver	.56	.42	.31
277430CM	+	SN75462P	DIP-8	7V, dual peripheral NAND driver	.65	.49	.36
278037CM	+	SN75471P	DIP-8	7V, dual peripheral AND driver	.50	.38	.28
278053CM	+	SN75472P	DIP-8	7V, dual peripheral NAND driver	.39	.36	.27
278061CM	+	SN75477P	DIP-8	7V, dual peripheral NAND driver	.35	.33	.245
51131CM	+	SN75492P	DIP-14	5V, HEX digit driver	3.45	3.00	2.85
310746CM	TI	SN751177N	DIP-16	5V, dual diff line driver/receiver	2.89	2.50	2.44
253083CM	+	SN751730N	DIP-16	5V, triple line driver/receiver	2.65	2.30	2.05

+ Jameco Value Offering

## Digital Interface ICs

DIP

Part No.	Product No.	Pkg.	Description	1	10	50	
323969CM	EDEFT609	DIP-8	Serial stepper motor controller .....	\$11.99	\$11.39	\$10.49	
323977CM	EDEFT639/P	DIP-8	Servo controller .....	\$9.99	8.95	8.55	7.75
323993CM	EDEFT649	DIP-8	Five pin output controller .....	\$9.99	8.95	8.55	7.65
171951CM	EDE702	DIP-18	Serial LCD interface .....	8.99	7.65	6.75	
321710CM	EDE707	DIP-28	Octal 7-segment LED display decoder .....	8.99	7.65	6.75	
321728CM	EDE747	DIP-24	7-segment decoder/driver .....	5.99	4.65	4.15	
321701CM	EDE1188	DIP-28	8x8 matrix universal keypad encoder .....	8.89	7.65	5.73	
171969CM	EDE1144	DIP-18	Keypad encoder .....	6.99	5.65	5.00	
141532CM	EDE1200	DIP-18	Unipolar stepper motor controller .....	8.29	6.90	5.90	
157526CM	EDE1204	DIP-18	Bipolar stepper motor controller .....	7.55	6.35	5.35	
321736CM	EDE2008	DIP-18	Pushbutton debouncer w/ 8-independent chan .....	5.99	4.65	4.15	
321744CM	EDE2108A	DIP-20	One-of-eight latch single channel .....	5.99	5.09	4.15	
321752CM	EDE2108D	DIP-20	One-of-eight latch act/deact .....	5.99	5.09	4.15	
321761CM	EDE2208/P	DIP-18	8-pushbutton momentary to toggle .....	5.45	4.25	3.75	
324005CM	EDE8744	DIP-28	16-key serial keypad and 2x40 LCD driver .....	13.89	11.79	10.65	

## 5000 Series &amp; Clock Chips

DIP SOIC

Part No.	Cross Ref.	Pkg.	Description	1	10	50
32803CM	TCM5089N	DIP-16	Touch tone generator	\$5.25	\$4.75	\$4.05
26091CM	MM5321N	DIP-16	TV camera synchronous generator	4.75	4.31	3.91
26171CM	MM5450N	DIP-40	LED display driver	2.79	2.60	2.30
86799CM	LM555CM	SOIC-8	Timer	.25	.16	.13
27422CM	LM555CN**	DIP-8	Timer	.29	.23	.20
126797CM	LMC555CN*	DIP-8	CMOS timer	.51	.47	.42
24328CM	LM556N*	DIP-14	Dual timer	.82	.60	.45
26201CM	MM58167AN	DIP-24	CPU real time clock	2.65	2.38	2.16
95530CM	RTC72421B	DIP-18	Real time clock	6.79	5.69	4.34
25101CM	MC146818	DIP-24	Real time clock with RAM	6.29	5.66	5.09
10567CM	AM9513APC	DIP-40	Real time clock	39.95	33.96	25.47

\*10 pcs. in Linear series IC cabinet kit, pg 34 \*\*20 pcs. in Linear series IC cabinet kit, pg 34

+ Pull = Extra Savings Blue Part No. = Limited Quantity Available

## UARTs

DIP PLCC

Part No.	Cross Ref.	Pkg.	Description	1	10	100
43158CM	6402♣	DIP-40	5V CMOS .....	\$6.25	\$5.35	\$4.99
27570CM	NS16C450N	DIP-40	Async. communication element, 5V .....	2.39	1.93	1.53
288753CM	TL16C450FN	PLCC-68	Async. communication element, 5V .....	2.39	1.94	1.45
288761CM	TL16C451FN	PLCC-68	Parallel port, 5V .....	<del>3.99</del> 3.39	2.75	2.17
288770CM	TL16C452FN	PLCC-68	Async. communication element, 5V .....	4.45	3.59	2.85
27596CM	NS16550AN♣	DIP-40	Async. communication element, 5V .....	4.45	4.05	2.25
288796CM	TL16C550CFN	PLCC-44	1-channel w/ autoflow control, 5V .....	2.75	2.27	1.70
288809CM	TL16C550CN	DIP-40	1-channel w/ 16-byte FIFO, 5V .....	2.79	2.27	1.79
288825CM	TL16C552AFN	PLCC-68	2-channel w/ 16-byte FIFO, 5V .....	5.45	4.43	3.78
288841CM	TL16C554FN	PLCC-68	4-channel w/ 16-byte FIFO, 5V .....	9.89	9.39	8.93
288876CM	TL16C750FN	PLCC-44	1-channel w/ 64-byte FIFO, 5V .....	5.75	5.65	5.55
288905CM	TL16C754BFN	PLCC-68	4-channel w/ 64-byte FIFO, 5V .....	13.69	12.99	12.35

+ Pull = Extra Savings

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Encoders/Decoders

Package (see pg 31)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
243942CM	HCS300	DIP-8	Code hopping decoder, 2-6.3V	\$1.75	\$1.69	\$1.63
243483CM	HCS512	DIP-18	Code hopping decoder, 4-6V	\$7.05	6.55	6.25
243934CM	HCS515	DIP-14	Code hopping decoder, 4.5-5.5V	3.05	2.89	2.75
243951CM	HCS2000	DIP-8	Code hopping decoder, 3.5-13V	1.55	1.50	1.45
123730CM	HT12E	DIP-18	Encoder, 2.4-12V	1.69	1.49	1.29
123748CM	HT12D	DIP-18	Decoder, 2.4-12V	1.69	1.49	1.29
126607CM	HT648L	DIP-24	Decoder, 2.4-12V	\$2.39	1.95	1.75
243441CM	MCP2120	DIP-14	Infrared encoder/decoder, 3-5V	2.05	1.95	1.89
243459CM	MCP2150	DIP-18	Standard protocol stack controller, 3-5V	7.59	6.92	6.29
243408CM	TP3054	DIP-16	U-law PCM CODEC & filter, 5V	2.45	1.92	1.44
243416CM	TP3057	DIP-16	A-law PCM CODEC & filter, 5V	2.15	1.65	1.25
243424CM	TP3064	DIP-20	U-law PCM CODEC & filter, 5V	3.15	3.00	2.75
243432CM	TP3067	DIP-20	A-law PCM CODEC & filter, 5V	\$2.29	1.85	1.45
289529CM	TL320AC01CFN	PLCC-28	Audio CODEC, 5V	6.55	6.25	5.95
287937CM	MCP2120	SOIC-14	Infrared encoder/decoder, 3-5V	1.99	1.89	1.85
287945CM	MCP2140-I/P	DIP-18	Standard protocol stack controller, 3-5V	2.29	2.26	2.17
287953CM	MCP2140-I/SO	SOIC-18	Standard protocol stack controller, 3-5V	2.29	2.22	2.15
287961CM	MCP2140-I/SS	SSOP-20	Standard protocol stack controller, 3-5V	2.39	2.35	2.27
287970CM	MCP2150-I/SO	SOIC-18	Standard protocol stack controller, 3-5V	6.95	6.85	6.70
291004CM	TP3054WM	SOIC-16	Interface encoder/filter, 5V	2.05	1.60	1.20
287849CM	MC145026D	SOIC-16	Encoder, 2.5-18V	1.25	1.00	.85
296702CM	MC145026P	DIP-16	Encoder, 2.5-18V	1.45	.97	.94
296711CM	MC145027P	DIP-16	Decoder, 4.5-18V	2.95	2.65	2.40
296729CM	MC145028P	DIP-16	Decoder, 4.5-18V	2.25	1.55	1.16
287873CM	MC145481DW	SOG-20	U-law/A-law PCM CODEC, 3V	2.45	2.40	2.35
287881CM	MC145483SD	SSOP-20	U-law/A-law PCM CODEC, 3V	2.85	2.70	2.58
287890CM	MC145484DW	SOIC-20	U-law/A-law PCM CODEC, 3V	2.19	1.75	1.73
287902CM	MC145484SD	SSOP-20	U-law/A-law PCM CODEC, 3V	2.59	2.47	2.35

Blue Part No. = Limited Quantity Available

## Stepper Motor Drivers/Controllers

Package (see pg 31)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
288059CM	L292⊕		Multit Watt-15 Switch mode DC motor driver, 36V .....	\$5.29	\$5.03	\$4.78
310703CM	L294⊕		Multit Watt-11 Switch mode solenoid driver, 36V .....	3.05	2.63	1.97
310738CM	L295		Multit Watt-15 Dual switch mode solenoid driver, 46V .....	6.19	5.75	5.49
288067CM	L297/1⊕	DIP-20	Stepper motor controller, 5V .....	5.19	4.99	4.46
288075CM	L297D⊕	SOIC-20	Stepper motor controller, 5V .....	5.99	5.69	5.40
245403CM	L298N⊕		Multit Watt-15 Dual full-bridge driver, 46V .....	2.95	2.55	2.35
288083CM	L6201⊕	SOIC-20	DMOS full bridge driver, 48V .....	7.79	7.19	6.45
288091CM	L6202⊕	DIP-18	DMOS full bridge driver, 48V .....	7.15	6.62	5.29
288104CM	L6203⊕		Multit Watt-11 DMOS full bridge driver, 48V .....	9.05	8.75	8.25
288112CM	L6506⊕	DIP-18	Stepper motor current controller, 5V .....	2.89	2.80	2.10
288121CM	L6506D⊕	SOIC-20	Stepper motor current controller, 5V .....	\$3.95	3.55	3.45

## KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation.

## 146472CM: PIC-SERVO Motion Control Chipset for DC Motors

- PIC servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO V.4, 28-pin and PIC-ENC V.1, 18-pin)



175901CM

## 175901CM: PIC-STEP Motion Control Chip for Stepper Motors

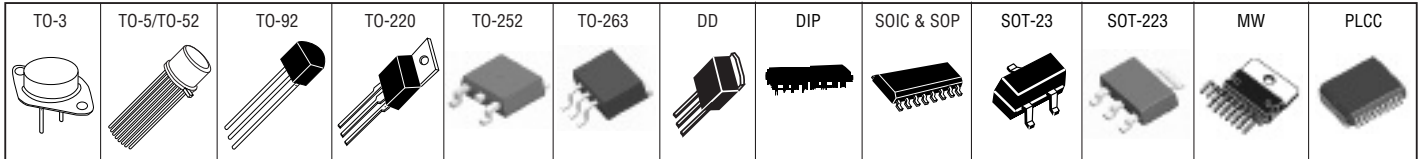
- Step rates up to 50,000 steps/sec. - suitable for use with microstepping drivers
- Trapezoidal positioning and profiled velocity modes
- Programmable current limits automatically switch between holding and running currents
- Programmable accelerations and minimum step rates

## 323934CM: PIC-SERVO SC Servo Motion Control I.C.

- For DC motors (brush or brushless w/ incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step & direction inputs

Part No.	Description	Package	1	10	50
146472CM	Motion control chipset for DC motors	DIP-28/18, 0.3"	\$31.35	\$26.55	\$25.15
175901CM	Motion control chip for stepper motors	DIP-28, 0.3"	25.45	22.75	20.55
323934CM	SC servo motion control IC	DIP-28, 0.3"	29.95	27.50	25.75

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.



Manufacturer Cross Reference Table										Jameco Value Offering	
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code		
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST		
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI		

## A/D & D/A Converters

				Package (see above)		
Part No.	Cross Ref.	Pkg.	Description	1	10	100
43748CM	7106CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, 9V .....	\$3.25	\$2.91	\$2.41
43756CM	7107CPL	DIP-40	A/D, 3 1/2-digit LCD/LED display, ±5V .....	2.95	2.40	2.05
290263CM	ICL7135CPI	DIP-28	A/D, 4 1/2-digit BCD output, 5V .....	5.55	4.48	3.83
289545CM	TLC5401DW	SOIC-20	A/D, 8-bit, 5V, 75Ksps .....	3.25	3.20	3.15
289553CM	TLC5401FN	PLCC-20	A/D, 8-bit, 5V, 75Ksps .....	3.29	3.22	3.15
289588CM	TLC5401IN	DIP-20	A/D, 8-bit, 5V, 75Ksps .....	3.35	3.15	2.99
289596CM	TLC5411DW	SOIC-20	A/D, 8-bit, 5V, 40Ksps .....	2.75	2.60	2.55
289609CM	TLC5411FN	PLCC-20	A/D, 8-bit, 5V, 40Ksps .....	2.65	2.33	1.74
289625CM	TLC5411IN	DIP-20	A/D, 8-bit, 5V, 40Ksps .....	2.85	2.69	2.55
289684CM	TLC542CDW	SOIC-20	A/D, 8-bit, 5V, 25Ksps .....	2.55	2.47	2.45
289692CM	TLC542CN	DIP-20	A/D, 8-bit, 5V, 25Ksps .....	2.55	2.47	2.45
289705CM	TLC5421FN	PLCC-20	A/D, 8-bit, 5V, 25Ksps .....	2.49	2.30	1.80
289713CM	TLC545CN	DIP-28	A/D, 8-bit, 5V, 76Ksps .....	5.45	5.35	5.25
289730CM	TLC5481D	SOIC-8	A/D, 8-bit, 3-5V, 45Ksps, 1-channel .....	2.39	2.25	2.20
289781CM	TLC549CD	SOIC-8	A/D, 8-bit, 3-6V, 40Ksps, 1-channel .....	1.85	1.70	1.60
289810CM	TLC549CP	DIP-8	A/D, 8-bit, 3-6V, 40Ksps, 1-channel .....	1.85	1.70	1.52
290984CM	TLV5711DW	SOIC-24	A/D, 8-bit, 2.7-5.5V, 1250/625Ksps, 1-ch.....	4.29	4.09	3.99
290992CM	TLV5711PW	TSSOP-24	A/D, 8-bit, 2.7-5.5V, 1250/625Ksps, 1-ch.....	4.29	4.09	3.99
10145CM	ADC0803LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	4.29	3.10	2.69
10153CM	ADC0804LCN	DIP-20	A/D, 8-bit, 5V, 9.1Ksps, 1-channel .....	1.99	1.75	1.39
10170CM	ADC0808CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	3.65	3.55	3.32
10188CM	ADC0809CCN	DIP-28	A/D, 8-bit, 5V, 9.1Ksps, 8-channel .....	2.65	2.35	1.80
10209CM	ADC0817CCN	DIP-40	A/D, 8-bit, 5V, 9.1Ksps, 16-channel .....	7.15	5.87	5.55
10225CM	ADC0820CCN	DIP-20	A/D, 8-bit, 5V, 1.5µs .....	2.15	1.99	1.81
116100CM	ADC0831CCN	DIP-8	A/D, 8-bit, 5V, 32µs .....	1.79	1.63	1.48
290474CM	TLV0831CD	SOIC-8	A/D, 8-bit, 3V, 32µs .....	2.39	2.29	2.25
290491CM	TLV0831CP	DIP-8	A/D, 8-bit, 3V, 32µs .....	2.29	2.03	1.52
251176CM	TL0831CP	DIP-8	A/D, 8-bit, 5V, 32µs .....	2.59	2.52	2.45
290538CM	TLC0832CD	SOIC-8	A/D, 8-bit, 3V, 32µs .....	2.39	2.29	2.25
290554CM	TLV0832CP	DIP-8	A/D, 8-bit, 3V, 32µs .....	2.39	2.29	2.24
290562CM	TLV0834CD	SOIC-14	A/D, 8-bit, 3V, 32µs .....	2.25	2.02	1.51
290571CM	TLV0834IN	DIP-14	A/D, 8-bit, 3V, 32µs .....	2.65	2.57	2.50
290600CM	TLV0838CDW	SOIC-20	A/D, 8-bit, 3V, 32µs .....	2.49	2.39	2.35
290618CM	TLV0838IN	DIP-20	A/D, 8-bit, 3V, 32µs .....	2.65	2.55	2.50
287603CM	ADS930E	SSOP-28	A/D, 8-bit, 3-5V, 30MHz, pipelined .....	4.69	4.35	4.00
296690CM	AD7226KN	DIP-20	D/A, 8-bit, 2-12.5V, 4µs, 4-channel .....	18.19	17.17	15.95
242296CM	TLC1543	DIP-20	A/D, 10-bit, 5V, 26µs, 11-channel .....	2.95	2.55	2.40
242309CM	TLC1549	DIP-8	A/D, 10-bit, 5V, 26µs, 1-channel .....	\$8.35	2.85	2.45 2.25
287591CM	ADS901E	SSOP-28	A/D, 10-bit, 3V, 20MHz, pipelined .....	6.19	6.05	5.90
288681CM	THS10301DW	SOIC-28	A/D, 10-bit, 3-5.5V, 30Msps .....	7.29	7.05	6.75
288690CM	THS1031DW	SOIC-28	A/D, 10-bit, 3-5.5V, 30Msps .....	8.09	7.85	7.55
288729CM	THS1031PW	TSSOP-28	A/D, 10-bit, 3-5.5V, 30Msps .....	8.09	7.85	7.55
289001CM	TLC1541CDW	SOP-20	A/D, 10-bit, 5V, 32Ksps .....	6.05	5.75	5.45
289019CM	TLC1541CN	DIP-20	A/D, 10-bit, 5V, 32Ksps .....	6.09	5.85	5.75
289027CM	TLC1541CFN	PLCC-20	A/D, 10-bit, 5V, 32Ksps .....	5.79	5.59	5.39
289078CM	TLC1542CDW	SOP-20	A/D, 10-bit, 5V, 26µs, 11-channel .....	\$4.15	3.75	3.65 3.49
289107CM	TLC1542CN	DIP-20	A/D, 10-bit, 5V, 26µs, 11-channel .....	4.55	4.39	4.25
289115CM	TLC1542CFN	PLCC-20	A/D, 10-bit, 5V, 26µs, 11-channel .....	4.55	4.39	4.25
289123CM	TLC1543CDB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26µs, 11-channel ...	3.39	3.15	3.05
289131CM	TLC1543CDW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26µs, 11-channel ...	3.35	3.25	3.09
289220CM	TLC1543CFN	PLCC-20	A/D, 10-bit, 6.5V, 5V, 26µs, 11-channel ...	3.35	3.25	3.09
289271CM	TLC15430DB	SSOP-20	A/D, 10-bit, 6.5V, 5V, 26µs, 11-channel ...	4.05	3.79	3.75
289300CM	TLC15430DW	SOIC-20	A/D, 10-bit, 6.5V, 5V, 26µs, 11-channel ....	3.99	3.79	3.75

= Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

## A/D & D/A Converters (Continued)

				Package (above)		
Part No.	Cross Ref.	Pkg.	Description	1	10	100
289334CM	TLC15430FN	PLCC-20	A/D, 10-bit, 5V, 26µs, 11-channel .....	\$3.99	\$3.79	\$3.75
289369CM	TLC1549CD	SOP-8	A/D, 10-bit, 5V, 2.6Mps, 11-channel .....	3.35	3.19	3.05
289377CM	TLC1551FN	PLCC-28	A/D, 10-bit, 5V, 6µs, 1-channel .....	6.29	5.99	5.70
277165CM	MAX186BCPP	DIP-20	A/D, 12-bit, 5V, 6µs, 8-channel .....	21.55	21.35	21.25
277157CM	MAX186DCWP	SOIC-20	A/D, 12-bit, 5V, 6µs, 8-channel .....	19.05	14.99	13.99
277069CM	MAX197BCNI	DIP-28	A/D, 12-bit, 5V, 10Ksps, 8-channel .....	24.89	22.90	20.95
287582CM	ADS774JU	SOIC-28	A/D, 12-bit, 5V, 117Ksps .....	35.45	33.69	32.00
289422CM	TLC2543CDW	SOIC-20	A/D, 12-bit, 5V, 10µs, 11-channel .....	8.35	7.95	7.55
289431CM	TLC2543CFN	PLCC-20	A/D, 12-bit, 5V, 10µs, 11-channel .....	7.05	5.69	4.85
289465CM	TLC2543CN	DIP-20	A/D, 12-bit, 5V, 10µs, 11-channel .....	8.35	7.95	7.55
289473CM	TLC2543CDB	SSOP-20	A/D, 12-bit, 5V, 10µs, 11-channel .....	7.75	7.65	7.55
290634CM	TLV2543CDW	SOIC-20	A/D, 12-bit, 3.3V, 10µs, 11-channel .....	7.99	7.79	7.55
290669CM	TLV2543CWR	DIP-20	A/D, 12-bit, 3.3V, 10µs, 11-channel .....	8.35	7.95	7.55
43764CM	7109CPL	DIP-40	A/D, 12-bit, 5V, 30sps, 1-channel .....	5.69	3.56	3.34
311781CM	MCP321A5T-10T	SOT-23A/5	A/D, 12-bit, 2.7-5.5V, 22.3Ksps, 1-ch. ....	2.05	1.95	1.85
287988CM	MCP3301-C1MS	MSOP-8	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 1-ch ..	2.79	2.65	2.57
287996CM	MCP3301-C1P	DIP-8	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 1-ch ..	2.59	2.49	2.40
288008CM	MCP3302-C1P	DIP-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch ..	3.59	3.45	3.30
288016CM	MCP3302-C1SL	SOIC-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch ..	3.59	3.45	3.30
288024CM	MCP3302-C1ST	TSSOP-14	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 2-ch ..	3.85	3.65	3.52
288032CM	MCP3304-C1P	DIP-16	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 4-ch ..	3.95	3.79	3.65
288041CM	MCP3304-C1SL	SOIC-16	A/D, 13-bit, 2.7-5.5V, 50-100Ksps, 4-ch ..	3.95	3.79	3.65
277149CM	MAX110ACWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-channel .....	13.25	11.99	10.79
277131CM	MAX110BCPE	DIP-16	A/D, 14-bit, 5V, 50sps, 2-channel .....	11.69	9.21	8.29
277122CM	MAX110BCWE	SOIC-16	A/D, 14-bit, 5V, 50sps, 2-channel <del>\$10.15</del>	9.15	8.72	8.29
313779CM	TC500ACOE	SOIC-16	A/D, 17-bit, ±5V .....	4.55	4.51	4.46
313787CM	TC500CPE	DIP-16	A/D, 17-bit, ±5V .....	<del>\$8.35</del> 1.95	1.85	1.39
287312CM	AD676JD	DIP-28	A/D, 16-bit, 5 ±12V, 100Ksps, 1-channel .....	85.69	83.85	81.99
242317CM	ADS7805	DIP-28	A/D, 16-bit, 5V, 100Ksps, 1-channel .....	35.99	34.99	34.52
242325CM	AD57813	DIP-16	A/D, 16-bit, 5V, 40Ksps, 1-channel .....	33.55	33.25	33.15
239417CM	ADS7825	DIP-28	A/D, 16-bit, 5V, 40Ksps, 4-channel .....	45.05	40.95	37.05
287401CM	AD976ABN	DIP-28	A/D, 16-bit, 5V, 200Ksps, 1-channel .....	68.05	67.05	66.05
287435CM	AD976BR	SOIC-28	A/D, 16-bit, 5V, 100Ksps, 1-channel .....	54.85	53.85	52.85
288593CM	PCM1800E	SSOP-24	A/D, 20-bit, 5V, 32-48KHz, 2-channel .....	4.75	4.65	4.49
288622CM	PCM1801U	SOIC-14	A/D, 20-bit, 5V, 32-48KHz, 2-channel .....	4.89	4.29	4.15
287363CM	AD7714AN	DIP-24	A/D, 24-bit, 5V, 1-2.5MHz, 6-channel .....	17.75	17.65	17.50
316726CM	TC7117CPL	DIP-40	A/D, 3-1/2 digit, LCD/LED display, 5V .....	2.75	2.55	2.25
287793CM	MC144110DW	SOIC-20	D/A, 6-bit, 5-15V, 3.7µs ser., 6-channel ...	4.05	3.95	3.90
288722CM	MC144111DW	SOIC-16	D/A, 6-bit, 5-15V, 3.7µs ser., 4-channel ...	2.99	2.00	1.75
115158CM	AD558JN	DIP-16	D/A, 8-bit, 5-15V, 1-5-3µs, 1-channel.....	12.59	11.99	11.29
14904CM	DAC0800LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.49	1.12	.83
14912CM	DAC0806LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	2.09	2.05	2.00
14947CM	DAC0808LCN	DIP-16	D/A, 8-bit, 4.5-18V, 150ns .....	1.43	1.18	.75
14963CM	DAC0830LCN	DIP-20	D/A, 8-bit, 5-15V, 1µs .....	4.79	4.39	3.99
128186CM	DAC0832LCN	DIP-20	D/A, 8-bit, 5-15V, 1µs .....	2.59	1.98	1.53
290781CM	TLV5604ID	SOIC-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-channel ..	6.85	6.75	6.39
290790CM	TLV5604IPW	TSSOP-16	D/A, 10-bit, 2.7-5.5V, 20MHz, 4-channel ..	6.85	6.75	6.39

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# A/D, D/A & Voltage Regulators



RoHS Compliant Product  
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Details on  
Page 1

Color Code Legend			
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## A/D & D/A Converters (Continued)

Package (see pg 33)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
289836CM	TLC5620CN	DIP-14	D/A, 8-bit, 5V, 1MHz, 4-channel	\$2.89	\$2.72	\$2.69
289844CM	TLC5620CD	SOIC-16	D/A, 8-bit, 5V, 1MHz, 4-channel	2.75	2.64	1.98
289861CM	TLC5628CDW	SOIC-16	D/A, 8-bit, 5V, 1MHz, 8-channel	4.75	4.29	4.15
289879CM	TLC5628CN	DIP-16	D/A, 8-bit, 5V, 1MHz, 8-channel	4.65	4.55	4.30
290968CM	TLV5628DW	SOIC-16	D/A, 8-bit, 3V, 1MHz, 8-channel	4.15	3.95	3.75
290976CM	TLV5628CN	DIP-16	D/A, 8-bit, 3V, 1MHz, 8-channel	4.69	3.79	2.99
289895CM	TLC7524CD	SOIC-16	D/A, 8-bit, 5-15V, 100ns	2.49	2.08	1.56
290052CM	TLC7524CN	DIP-16	D/A, 8-bit, 5-15V, 100ns	2.75	2.39	1.95
290087CM	TLC7528CN	DIP-20	D/A, 8-bit, 5-15V, 100ns, 2-channel	2.75	2.23	1.67
290095CM	TLC7528DW	SOIC-20	D/A, 8-bit, 5-15V, 100ns, 2-channel	2.79	2.37	1.77
287339CM	AD7628KN	DIP-20	D/A, 8-bit, 12-15V, 400ns, 2-channel	4.35	3.79	3.70
239425CM	TLC5615	DIP-8	D/A, 10-bit, 5V, 12µs, 1-channel	3.49	2.79	2.32
287380CM	AD9760AR	SOIC-28	D/A, 10-bit, 3-5V, 125Mpsps	6.05	5.50	5.00
287443CM	AD9832BRU	TSSOP-16	Direct digital synthesizer, 3-5V, 25MHz	7.95	7.40	5.55
287451CM	AD9850BRS	SSOP-28	Direct digital synthesizer, 3-5V, 125MHz	18.49	17.25	13.78
287347CM	AD767JN	DIP-24	D/A, 12-bit, 12-15V, 4µs, 1-channel	18.75	18.65	18.50
287355CM	AD767KN	DIP-24	D/A, 12-bit, 12-15V, 4µs, 1-channel	17.75	17.35	16.75
14980CM	DAC1222LCN	DIP-18	D/A, 12-bit, 15V, 500ns	10.95	9.85	8.85
290802CM	TLV5610DW	SOIC-20	D/A, 12-bit, 2.7-5.5V, 3-7µs, 8-channel	15.99	15.25	14.49
290845CM	TLV5610PW	TSSOP-20	D/A, 12-bit, 2.7-5.5V, 3-7µs, 8-channel	16.05	15.25	14.49
290829CM	TLV5613DW	SOIC-20	D/A, 12-bit, 2.7-5.5V, 3-7µs, 1-ch	5.09	4.99	4.75
290853CM	TLV5613PW	TSSOP-20	D/A, 12-bit, 2.7-5.5V, 3-7µs, 1-ch	5.09	5.00	4.75
290896CM	TLV5614CD	SOIC-16	D/A, 12-bit, 2.7-5.5V, 5.5-2.0µs, 4-ch	13.35	12.95	12.59
290933CM	TLV5614CPW	TSSOP-16	D/A, 12-bit, 2.7-5.5V, 5.5-2.0µs, 4-ch	13.35	12.95	12.59
239433CM	DAC712	DIP-28	D/A, 16-bit, 12-15V, 6µs	20.05	18.93	17.96
242771CM	DAC714P	DIP-16	D/A, 16-bit, 12-15V, 10µs	31.55	30.55	29.55
24336CM	DAC715	SOIC-28	D/A, 16-bit, 12-15V, 10µs	35.75	32.50	29.55
243344CM	DAC716	DIP-16	D/A, 16-bit, 12-15V, 10µs	25.25	25.00	24.85

Blue Part No. = Limited Quantity Available

## Low Drop-Out Voltage Regulators

Package (see pg 33)

Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1	10	100	
299743CM	+	LM1084IT-ADJ	TO-220	5A low drop out adj. pos. volt. reg.	\$1.99	\$1.52	\$1.13	
299735CM	+	LM1084IT-3.3	TO-220	5A low drop out 3.3V pos. volt. reg.	2.95	2.49	2.09	
282781CM	+	LD1085D2M33	DD	3A low drop pos volt reg. adj./fixed .....	1.69	1.54	1.40	
282757CM	+	LT1085CT	TO-220	3A low drop pos volt reg. adj./fixed .....	1.34	1.21	.89	
302471CM	+	LM1085IS-ADJ	TO-263	3A low drop out adj. pos. volt. reg. ....	1.29	.97	.72	
302463CM	+	LM1085IS-3.3	TO-263	3A low drop out 3.3V pos. volt. reg. ....	1.20	.90	.67	
302455CM	+	LM1085IT-ADJ	TO-220	3A low drop out adj. pos. volt. reg. ....	2.49	1.85	1.39	
244312CM	+	LD1086D2M33	TO-263/3	3.3V, low dropout voltage reg. <del>\$1.69</del>	1.35	1.15	.92	
245526CM	+	LM1086CS-ADJ	TO-263/3	1.5A low dropout positive reg. ....	1.99	1.51	1.13	
192305CM	+	LM1086CT-3.3	TO-220/3	1.5A low dropout positive reg. (3.3V) ...	1.09	.81	.60	
192313CM	+	LM1086CT-5.0	TO-220/3	1.5A low dropout positive reg. (5V) ...	1.35	1.00	.78	
192292CM	+	LM1086CT-ADJ	TO-220/3	1.5A low dropout positive reg. ....	.77	.70	.64	
242042CM	+	LM1117DT-3.3	TO-252/3	800mA low dropout linear reg. ....	.78	.66	.50	
242069CM	+	LM1117DT-5.0	TO-252/3	800mA, 5V, low dropout volt. reg. <del>\$1.20</del>	.96	.70	.52	
251782CM	+	LM1117MPX-ADJ	SOT-223/3	800mA low drop out linear regulator ...	.46	.44	.33	
242114CM	+	LM1117T-3.3	TO-220/3	800mA, 3.3V, LDO voltage reg. ....	.66	.625	.57	
243539CM	+	LM1117T-ADJ	TO-220/3	800mA, adj., LDO voltage reg. ....	1.27	.83	.68	
314326CM	ANA	AP1184KSL	TO-263/5	4A ultra LDO adj. reg. (ROHS comp.)	5.29	3.69	3.29	
244216CM	+	LT1585ACT-3.3	TO-220/3	5A, 3.3V, LDO voltage reg. .... <del>\$2.29</del>	1.95	1.65	1.35	
244224CM	+	LT1585ACT-ADJ	TO-220/3	5A, adjustable, LDO volt. reg. ....	2.29	1.95	1.46	
244144CM	+	LT1587CM	DD/3	3A LDO voltage regulator .....	4.15	3.75	3.40	
244152CM	+	LT1587CT-3.3	TO-220/3	3A, 3.3V, LDO voltage reg. ....	1.55	1.18	.89	
244161CM	+	LM1587CT-ADJ	TO-220/3	3A LDO fast response reg. ....	1.79	1.38	1.05	
310244CM	TI	TLV2217-33KC	TO-220/3	LDO 3.3V volt reg. PNP .....	.69	.59	.47	
310121CM	+	LM2930T-5.0	TO-220/3	3-terminal positive voltage regulator ...	.71	.69	.51	
121030CM	+	LM2931AZ-5.0	TO-92	5V LDO regulator .....	.49	.43	.31	
23368CM	+	LM2931CT	TO-220/5	3V-24V LDO regulator .....	<del>\$0.50</del>	.48	.41	.308
256612CM	+	LM2931D-5.0	SOIC-8	5V LDO regulator .....	.46	.39	.29	
121048CM	+	LM2931Z-5.0	TO-92	5V LDO regulator .....	<del>\$0.32</del>	.21	.19	.18
291098CM	NSC	LM2937ES-2.5	TO-263	2.5V 500mA LDO regulator .....	1.79	1.36	1.02	
297810CM	NSC	LM2937ET-5.0	TO-220	5V 500mA LDO regulator .....	1.22	1.12	1.02	
291101CM	NSC	LM2937ET-10	TO-220	10V 500mA LDO regulator .....	1.69	1.28	.96	

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Low Drop-Out Voltage Regulators (Continued)

Package (see pg 33)

Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1	10	100	
192495CM	✦	LM2940CT-12	✚	TO-220/3 12V LDO reg. (max. 45Vin)	\$ .74	\$ .68	\$ .62	
107182CM	✦	LM2940CT-5	✚	TO-220/3 5V LDO reg. (max. 45Vin)	1.39	1.05	.77	
245657CM	✦	LM2941CS	✚	TO-263/5 1A LDO adjustable regulator	1.65	1.39	1.05	
121064CM	✦	LM2941CT	✚	TO-220/5 1A LDO adjustable reg. (45Vin)	.99	.88	.71	
23376CM	✦	LM2941T	✚	TO-220/5 1A LDO adjustable reg. (60Vin)	\$1.49	1.19	.90	.81
121101CM	✦	LP2950ACZ-5.0	✚	TO-92 Low power LDO 3V low % reg.	.69	.59	.44	
266781CM	✦	LP2950CDT-5.0	✚	TO-252/3 100mA low pwr. LDO volt. reg.	\$1.06	.55	.50	.415
266845CM	✦	LP2950CZ-3.0	✚	TO-92 100mA low pwr. LDO volt. reg.	.86	.62	.47	
266757CM	✦	LP2950CZ-5.0	✚	TO-92 100mA low pwr. LDO volt. reg.	.80	.59	.29	
266669CM	NSC	LP2967BP-2533	✚	BPA-8 Dual µPwr 150mA LDO reg. (2.5/3.3V)	2.85	2.70	2.48	
266589CM	NSC	LP2967BP-2828	✚	BPA-8 Dual µPwr 150mA LDO reg. (2.8/2.8V)	2.59	2.54	2.49	
266626CM	NSC	LP2967MM-2528	✚	MSOP-8 Dual µPwr 150mA LDO reg. (2.5/2.8V)	2.49	2.40	2.25	
266407CM	NSC	LP2967MM-2530	✚	MSOP-8 Dual µPwr 150mA LDO reg. (2.5/3.3V)	2.49	2.40	2.25	
266597CM	NSC	LP2967MM-2626	✚	MSOP-8 Dual µPwr 150mA LDO reg. (2.6/2.6V)	2.49	2.39	2.27	
266642CM	NSC	LP2967MM-2828	✚	MSOP-8 Dual µPwr 150mA LDO reg. (2.8/2.8V)	2.49	2.40	2.25	
266706CM	NSC	LP2968LD-3.0	✚	LLP-8 µPwr, 200mA ultra LDO fixed volt reg.	1.85	1.75	1.62	
266722CM	NSC	LP2967LD-5.0	✚	LLP-8 Same as above w/ prog. pwr-on reset delay	1.85	1.75	1.62	
192524CM	✦	LM3940IT-3.3	✚	TO-220/3 1A LDO for 5V to 3.3V	1.69	1.28	.95	
251344CM	TI	TP76201DBVR	✚	SOT-23/5 100mA LP low output adj. LDO linear reg	1.29	1.16	1.04	

## Voltage Regulators

Package (see pg 33)


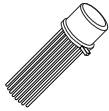
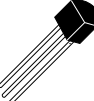
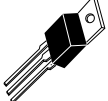










\* Minimum order 10 pieces

Part No.	Mfr.	Cross Ref.	Pkg/Pins	Description	1	10	100	
282618CM	+	LM117H⊕	TO-39	3-terminal adjustable regulator .....	\$5.15	\$4.65	\$4.20	
282036CM	+	LM140AH-5.0⊕	TO-39	3-terminal positive regulator .....	4.59	3.68	2.76	
302375CM	+	LM217T⊕	TO-220	1.2 - 37V adj. positive voltage reg. ....	.56	.52	.47	
23499CM	+	LM309K⊕	TO-3/2	5V 1A regulator (0°C to +125°C) .....	4.55	3.25	2.95	
192268CM	+	LM317AT⊕	TO-220/3	3-terminal adjustable reg. (1.2V-37V) ..	1.75	1.25	.95	
192276CM	+	LM317HVT⊕	TO-220/3	3-terminal adjustable reg. (1.2V-57V) ..	1.99	1.77	1.31	
23544CM	+	LM317K⊕	TO-3/2	1.5A adj. pos. reg. (1.2V-37V) .....	1.75	1.59	1.47	
193551CM	+	LM317LM⊕	SOIC-8	100mA adj. pos. regulator (1.2V to 37V) ..	.21	.19	.17	
23552CM	+	LM317LZ⊕	TO-92	100mA adj. pos. reg. (1.2V-37V) .....	.23	.22	.20	
23579CM	+	LM317T⊕*	TO-220/3	1.5A adj. pos. reg. (1.2V-37V) .....	.45	.39	.34	
23667CM	+	LM323K⊕	TO-3/2	5V 3A positive regulator .....	2.89	2.75	2.29	
23798CM	+	LM337K⊕	TO-3/2	1.5A/3 term. adj. neg. reg. ....	4.69	3.62	2.71	
193586CM	+	LM337LM	SOIC-8	1.5A adj. neg. regulator (-1.2V to -37V) ...	.45	.41	.38	
296841CM	+	LM337LZ⊕	TO-92	3-terminal adj. neg. voltage reg. ....	.67	.57	.43	
23819CM	+	LM337T⊕*	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V) .....	.59	.55	.44	
23835CM	+	LM338K⊕	TO-3/2	5A adj. pos. reg. (1.2V-32V) .....	5.69	4.47	3.74	
192284CM	+	LM338T⊕	TO-220/3	5A adjustable regulator .....	1.99	1.49	.99	
23931CM	+	LM350K⊕	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V) ..	4.75	4.25	3.19	
23940CM	+	LM350T⊕	TO-220/3	3 amp. adj. power regulator .....	1.09	.89	.69	
293134CM	+	LM431ACM⊕	SOIC-8	Programmable shunt regulator .....	.23	.22	.21	
278248CM	+	TL431AILP⊕	TO-92	Adjustable precision shunt regulator ....	.41	.34	.23	
239142CM	+	LM431BCM	SOIC-8	Programmable shunt regulator ....	\$0.42	.20	.18	.16
251862CM	+	LM431CIM	SOIC-8	Adj. precision zener shunt regulator ....	.37	.32	.28	
276525CM	MAX	MAX637ACPA	DIP-8	Presel/Adj. output CMOS invert switching reg.	5.49	4.98	4.47	
276517CM	MAX	MAX637ACSA⊕	SOIC-8	Presel/Adj. output CMOS invert switching reg.	5.65	4.50	3.60	
214050CM	+	LM723CD	SOIC-14	High precision voltage regulator .....	*	.17	.16	
24467CM	+	LM723CN⊕*	DIP-14	Voltage regulator (2V-37V) .....	.26	.24	.23	
301719CM	+	LM723H⊕	TO-5	2V - 37V, 150mA adj. voltage reg. ....	3.35	2.57	1.92	
298071CM	+	MAX755CSA⊕	SOIC-8	-5V/adj., neg. output, invert, curr. mode PWM reg.	3.55	3.35	3.20	
302279CM	NSC	LM2524DN⊕	DIP-16	200mA regulating PWM .....	1.14	1.04	.77	
192330CM	NSC	LM2574HM-5.0⊕	DIP-8	Simple switcher 0.5A step down volt. reg.	\$0.49	3.05	2.74	2.49
192348CM	NSC	LM2574HM-12⊕	DIP-8	Simple switcher 0.5A step down volt. reg.	\$0.49	2.09	1.90	1.73
245551CM	NSC	LM2574N-ADJ⊕	DIP-8	Simple switcher 0.5A step down volt. reg. ....	2.05	1.55	1.15	
156566CM	NSC	LM2574N-5.0⊕	DIP-8	Step-down 5-voltage regulator .....	1.49	1.15	.86	
279638CM	NSC	LM2575HVT-5.0⊕	TO-220	Switcher 1A step down V-reg, high Vin range	3.95	3.35	3.15	
279603CM	NSC	LM2575HVT-12⊕	TO-220	Switcher 1A step down V-reg, high Vin range	3.95	3.55	3.28	
192399CM	+	LM2576HVT-12⊕	TO-220/5	Switcher 3A step down V-reg, high Vin range	5.89	4.38	4.00	
192381CM	NSC	LM2576HVT-5.0⊕	TO-220/5	Switcher 3A step down V-reg, high Vin range	3.95	3.56	3.24	
192372CM	NSC	LM2576HVT-ADJ⊕	TO-220/5	Switcher 3A step down V-reg, high Vin range	5.09	3.93	2.95	
245569CM	NSC	LM2576T-5.0⊕	TO-220/5	Simple switcher 3A step down volt. reg. ....	2.05	1.87	1.40	
120977CM	NSC	LM2576T-ADJ⊕	TO-220/5	Simple switcher 3A step down volt. reg. ....	1.69	1.37	1.05	

\*10 pieces included in Linear kit, pg 34 \*\*20 pieces included in Linear kit, pg 34



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

TO-3	TO-5/TO-52	TO-92	TO-220	TO-252	TO-263	DD	DIP	SOIC & SOP	SOT-23	SOT-223	MW	PLCC
												
Manufacturer Cross Reference Table												Jameco Value Offering 
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro				
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments				TI

Voltage Regulators (Continued)				Package (see above)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10 100
* Minimum order 10 pieces						
300821CM	NSC	LM2586S-ADJ	TO-263	Simple switcher 3A flyback reg. w/ shutdown	\$5.45	\$5.15 \$5.06
300871CM	NSC	LM2586S-5.0	TO-263	Simple switcher 3A flyback reg. w/ shutdown	.. 5.45	5.15 5.06
300898CM	NSC	LM2596S-12	TO-263	Simple switcher 3A flyback reg. w/ shutdown	.. 5.45	5.15 5.06
300919CM	NSC	LM2586T-ADJ	TO-220	Simple switcher 3A flyback reg. w/ shutdown	.. 5.45	5.15 5.06
300804CM	NSC	LM2588S-ADJ	TO-263	Simple switcher 5A flyback reg. w/ shutdown	.. 7.45	6.20 5.55
300847CM	NSC	LM2588T-ADJ	TO-220	Simple switcher 5A flyback reg. w/ shutdown	.. 7.45	7.25 7.05
300759CM	NSC	LM2592HVS-ADJ	TO-263	Simple switcher 2A step down voltage reg.	..... 5.05	4.59 4.33
300783CM	NSC	LM2592HVS-5.0	TO-263	Simple switcher 2A step down voltage reg.	..... 5.05	4.59 4.33
300724CM	NSC	LM2592HVT-ADJ	TO-220	Simple switcher 2A step down voltage reg.	..... 5.05	4.25 3.58
300732CM	NSC	LM2592HVT-3.3	TO-220	Simple switcher 2A step down voltage reg.	..... 5.05	4.60 4.33
300716CM	NSC	LM2594M-3.3	SOIC-8	Simple switcher 0.5A step down voltage reg.	..... 2.55	2.25 2.17
192428CM	NSC	LM2594N-ADJ	DIP-8	Simple switcher pwr. conv. 150kHz 0.5A	\$2.55 2.39	2.18 1.98
300695CM	NSC	LM2594N-3.3	DIP-8	Simple switcher 0.5A step down voltage reg.	..... 2.55	2.29 2.17
300265CM	NSC	LM2595S-ADJ	TO-263	Simple switcher 1A step down volt. reg.	..... 3.19	2.45 2.39
300273CM	NSC	LM2595S-12	TO-263	Simple switcher 1A step down voltage reg.	..... 3.19	2.89 2.74
300775CM	NSC	LM2595T-ADJ	TO-220	Simple switcher 1A step down voltage reg.	..... 3.19	2.46 1.84
192452CM	NSC	LM2595T-5.0	TO-220/5	Simple switcher pwr. conv. 150kHz 1A	..... 1.65	1.48 1.35
310391CM	NSC	LM2596S-5.0	TO-263/5	Simple switcher 3A step-down voltage reg.	..... 3.59	2.99 2.90
290626CM	NSC	LM2596T-ADJ	TO-220/7	Simple switcher 3A step-down voltage reg.	..... 3.55	2.75 2.12
290642CM	NSC	LM2596T-5.0	TO-220/7	Simple switcher 3A step-down voltage reg.	..... 3.55	3.25 3.09
290597CM	NSC	LM2597T-ADJ	TO-220/7	Simple switcher 3A st-dn volt. reg. w/ flags	..... 4.69	3.58 3.22
290749CM	NSC	LM2651MTC-3.3	TSSOP-16	1.5A high eff. synch. switching reg.	..... 3.15	2.99 2.85
290757CM	NSC	LM2670S-5.0	TO-263/7	5V high eff. simple switcher	..... 4.29	3.55 3.35
312397CM	NSC	LM2636MTC	TSSOP-20	5-bit prog. synchronous buck reg.	..... 3.45	2.65 2.58
312389CM	NSC	LM2653MTC-ADJ	TSSOP-16	1.5A high eff. synch. switching reg.	..... 4.19	3.25 3.12
290765CM	NSC	LM2672N-5.0	DIP-8	5V high eff. simple switcher, 1A load	..... 3.45	3.15 2.96
290888CM	NSC	LM2674M-ADJ	SOIC-8	Adjustable voltage hi efficiency switcher	..... 2.85	2.35 2.20
290861CM	NSC	LM2674N-5.0	DIP-8	5V high eff. simple switcher, 500mA load	..... 2.85	2.35 2.20
291012CM	NSC	LM2675N-ADJ	DIP-8	Simple switcher 1A step down volt. reg. pwr cvtr	..... 3.35	2.99 2.85
291039CM	NSC	LM2678S-ADJ	TO-263/7	Simple switcher 5A step down volt. reg., hi-eff	..... 5.45	5.29 5.05
291047CM	NSC	LM2678T-5.0	TO-220/7	Simple switcher 5A step down volt. reg., hi-eff	..... 5.45	5.29 5.05
290651CM	NSC	LM2596S-ADJ	TO-263	Simple switcher 3A step down volt. reg.	..... 3.55	2.74 2.12
290394CM	NSC	LM2598S-ADJ	TO-263/7	Simple switcher 3A step down volt. reg.	..... 4.65	3.85 3.64
245649CM	NSC	LM2936MP-3.3	SOT-223	Ultra-low quiescent current 3.3V reg.	..... 2.19	2.06 1.93
197166CM	NSC	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	..... 1.85	1.68 1.18
239151CM	NSC	LP2951CM	SOIC-8	Adj. micropower volt. reg.	..... .35	.32 .29
277077CM	NSC	LP2952IM	SOIC-16	Adj. micropower low pwr. volt. reg.	\$2.35 1.99	1.49 1.43
51246CM	+	7805K	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	5.15	3.95 2.95
51262CM	+	7805T	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	.... .35	.32 .28
51182CM	+	78L5CZ	TO-92	5V 100mA pos. voltage regulator	..... .27	.24 .22
193754CM	+	78L05ACM	SOIC-8	5V 100mA pos. voltage regulator	..... .22	.21 .19
192233CM	+	78M05	TO-220/3	5V 500mA pos. voltage regulator	..... .22	.19 .17
51297CM	+	7806T	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.... .30	.25 187
193762CM	+	78L06ACM	SOIC-8	6.2V 100mA pos. volt. reg.	..... .22	.15 .13
51300CM	+	7808CT	TO-220/3	8V 1A pos. voltage reg. (LM340T-8)	.... .46	.35 .27
192225CM	+	78L09ACZ	TO-92	9V 100mA pos. voltage regulator	..... .24	.23 .17
51318CM	+	7812K	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	2.19	1.79 1.59
51334CM	+	7812T	TO-220/3	12V 1A pos. voltage reg. (LM340T-12)	.... .35	.32 .28
51203CM	+	78L12CZ	TO-92	12V 100mA pos. voltage regulator	..... *	.17 .14
193771CM	+	78L12ACM	SOIC-8	12V 100mA pos. voltage regulator	..... *	.17 .15
192241CM	+	78M12CT	TO-220/3	12V 500mA pos. voltage regulator	..... .22	.20 .18

\*10 pieces included in Linear kit, pg 34  Jameco Value Offering

Voltage Regulators (Continued)				Package (see above)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10 100
* Minimum order 10 pieces						
51369CM	+	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	\$1.19	\$1.12 \$1.03
51377CM	+	7815T	TO-220/3	15V 1A pos. voltage reg. (LM340T-15)	.... .28	.25 .22
193789CM	+	78L15ACM	SOIC-8	15V 100mA pos. voltage regulator	..... *	.12 .11
192250CM	+	78M15CT	TO-220/3	15V 500mA pos. voltage regulator	..... .32	.27 .21
194634CM	+	7818T	TO-220/3	18V 1A pos. voltage reg. (LM340T-18)	..... .45	.35 26
51414CM	+	7824T	TO-220/3	24V 1A pos. voltage reg. (LM340T-24)	.36	.34 .31
51238CM	+	78S40CN	DIP-16	1.25V-40V 1.5A switching regulator	.. 1.35	1.08 .87
51457CM	+	7905T	TO-220/3	-5V 1A neg. voltage reg. (LM320T-5)	.... .42	.38 .36
51422CM	+	79L05ACP	TO-92	-5V 100mA neg. voltage regulator	..... .25	.22 165
193797CM	+	79L05ACM	SOIC-8	-5V 100mA neg. voltage regulator	..... .41	.14 .12
51449CM	+	79M05CT	TO-220/3	3-terminal negative regulator	..... .38	.33 24
51481CM	+	7912CT	TO-220/3	-12V 1A neg. voltage reg. (LM320T-12)	.31	.27 .21
51431CM	+	79L12CZ	TO-92	-12V 100mA neg. voltage regulator	..... .23	.21 .16
51502CM	+	7915CT	TO-220/3	-15V 1A neg. voltage reg. (LM320T-15)	.32	.27 .22
194749CM	+	79L15ACZ	TO-92	-15V 100mA neg. voltage regulator	..... .41	.33 25
193818CM	+	79L15ACM	SOIC-8	-15V 100mA neg. voltage regulator	..... *	.13 .12
316881CM	+	MC34063AD	SOIC-8	1.5A Step-up/down inverting switch reg.	.... .52	.432 32
316945CM	+	MC34063AP1	DIP-8	1.5A Step-up/down inverting switch reg.	.... .66	.473 .437



\*10 pcs. included in Linear kit, pg 34 \*20 pcs. included in Linear kit, pg 34  Jameco Value Offering

Audio				Package (see above)		
Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10 100
277624CM	+	INA103KP	DIP-16	Low noise/distortion instr. amp.	..... \$9.35	\$8.95 \$8.50
277632CM	+	INA103KU	SOIC-16	Low noise/distortion instr. amp.	..... 7.95	7.45 6.91
278408CM	+	TPA112D	SOIC-8	150mW stereo aud. pwr amp, diff in.	..... .81	.69 .52
310560CM	+	TPA122D	SOIC-8	150mW stereo aud. pwr amp, sgl in/ch.	..... .83	.71 .64
243678CM	ADI	OP275GP	DIP-8	Dual JFET audio op amp.	..... 1.75	1.61 1.47
243660CM	ADI	OP275GS	SOIC-8	Dual JFET audio op amp	..... \$1.85 .98	.89 .81
24037CM	NSC	LM380N	DIP-14	2-watt audio power amp.	..... .94	.87 .63
24088CM	NSC	LM383T	TO-220/5	7-watt audio high power amp.	..... 5.95	5.39 4.95
24096CM	NSC	LM384N	DIP-14	5-watt audio amp.	..... 1.22	.91 .69
193623CM	+	LM386M-1	SOIC-8	Low volt. audio power amp. 250mW/12V	.26	.24 .22
24125CM	+	LM386N-1	DIP-8	Low voltage audio amp. 250mW/6V	.... .48	.35 .29
24133CM	+	LM386N-3	DIP-8	Low voltage audio amp. 500mW/9V	.... .69	.59 .49
24483CM	NSC	LM725CN	DIP-8	Instrumentation op amplifier	..... 2.19	1.68 1.26
279697CM	NSC	LM833D	SOIC-8	Dual audio op amp.	..... .28	.26 .23
120942CM	NSC	LM833N	DIP-8	Dual audio op amp.	..... \$0.71 .37	.34 .31
295718CM	NSC	LM1203N	DIP-28	RGB video amp	..... 4.55	4.09 3.69
24942CM	ON	MC1350P	DIP-8	Video IF amp (12V operation)	..... 1.95	1.85 1.75
23270CM	NSC	LM1875T	TO-220/5	20-watt power audio amplifier	..... 1.79	1.74 1.49
355477CM	NSC	LM1875TSL	TO-220/5	20-watt audio power amplifier	..... 1.12	1.03 1.02
23288CM	NSC	LM1877N-9	DIP-14	Dual power audio amplifier	..... .95	.81 61
245542CM	NSC	LM1881M	SOIC-8	Video synchronous separator	..... 1.95	1.75 1.55

\*10 pcs. included in Linear kit, pg 34  Jameco Value Offering

Committed to You

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 RoHS compliant product
  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.
 [Details on page 1.](#)

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## Audio (Continued)

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107140CM	NSC	LM1881N	DIP-8	Video synchronous separator	\$2.69	\$2.05	\$1.53
243547CM	NSC	LM1894N	DIP-14	DNR noise reduction	2.69	2.48	1.86
302519CM	NSC	LM1971M	SOIC-8	Audio attenuator with mute	2.49	1.89	1.65
302447CM	NSC	LM1972M	SOIC-20	2-channel audio attenuator	3.45	3.05	2.89
328977CM	ST	TDA2002V	TO-220/5	8-watt audio high power amp.	3.75	3.35	3.00
315344CM	ST	TDA2040V	PWAT-5	20W hi-fi audio power amp	2.45	2.25	2.14
275830CM	ADI	OPA2134PA	DIP-8	High-performance audio op amp.	2.39	1.93	1.67
275821CM	ADI	OPA2134UA	SOIC-8	High-performance audio op amp.	2.25	2.02	1.82
312063CM	+	SSM2141P	DIP-8	High common-mode rejection diff. line rec.	3.19	2.79	2.69
252013CM	NSC	LM3875T	TO-220/11	56W high perf. audio power amp.	5.19	4.11	3.70
126834CM	NSC	LM3876T	TO-220/11	40W high perf. audio amp w/mute	\$4.09	3.75	3.10
320670CM	NSC	LM3886T	TO-220/11	68W high perf. audio amp, isol. pkg.	5.59	4.45	4.09
192516CM	NSC	LM3886T	TO-220/11	68W high perf. audio amp	4.35	3.32	2.49
302201CM	NSC	LM4752T	TO-220	Stereo 11W audio power amp	2.15	1.60	1.20
302199CM	NSC	LM4860M	SOIC-16	1W audio power amp w/ shutdown mode	1.29	.97	.72
267047CM	NSC	LM4864M	SOIC-8	725mW audio pwr amp w/ shutdown mode	1.31	.97	.71
302181CM	NSC	LM4871M	SOIC-8	3W audio power amp w/ shutdown mode	1.05	.78	.57
316873CM	MOT	MC34119D	SOIC-8	LP audio amp (500mW, 16VDC)	.56	.50	.37
316865CM	MOT	MC34119P	DIP-8	LP audio amp (500mW, 16VDC)	1.02	.66	.61

+ Jameco Value Offering

## Comparators

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
311052CM	NSC	LM1111H	TO-5/8	Voltage comparator	\$3.39	\$2.60	\$1.95
311044CM	NSC	LM1111H-8	DIP-8	Voltage comparator	5.89	4.71	3.53
282061CM	+	LM139D	SOP-14	Low pwr, low offset volt quad comp.	.80	.68	.58
282087CM	+	LM139L	CDIP-14	Low pwr, low offset volt quad comp.	3.25	2.90	2.60
302501CM	NSC	LM193H	TO-5	Dual low-power comparator	4.45	3.43	2.57
302391CM	+	LM211D	SOIC-8	Hi-speed, strobed diff. comparator	.35	.29	.21
302383CM	+	LM211P	DIP-8	Hi-speed, strobed diff. comparator	.21	.18	.13
302367CM	+	LM219D	SOIC-14	Dual high speed voltage comparator	.80	.75	.56
302287CM	+	LM239D	SOIC-14	Low power low offset volt quad comp.	.25	.23	.20
212126CM	+	LM239N	DIP-14	Low power low offset volt quad comp.	*	.14	.13
213188CM	+	LM306N	DIP-8	Differential comparator w/strobes	\$0.69	.59	.48
193543CM	+	LM311D	SOIC-8	Voltage comparator	*	.16	.15
23528CM	+	LM311N*	DIP-8	Voltage comparator	.35	.25	.19
251918CM	+	LP311D	SOIC-8	Voltage comparator	.76	.65	.48
245690CM	+	LM319M	SOIC-14	High speed dual comparator	.37	.32	.24
23632CM	+	LM319N	DIP-14	High speed dual comparator	.31	.264	.197
246537CM	+	LM339AM	SOIC-14	Low power low offset volt quad comp	.65	.39	.293
143888CM	+	LM339AN	DIP-14	Low power quad comparator	.29	.23	.193
193594CM	+	LM339M	SOIC-14	Low power low offset volt quad comp	.27	.23	.17
23851CM	+	LM339N**	DIP-14	Quad comparator	*	.19	.165
251977CM	+	LP339M	SOIC-14	Ultra-low power quad comparator	.81	.68	.50
312047CM	TI	TLC372CD	SOIC-8	LinCMOS dual differential comp	.65	.54	.44
312055CM	TI	TLC372CP	DIP-8	LinCMOS dual differential comp	.65	.62	.46
314712CM	+	TLC374CD	SOP-14	LinCMOS quad differential comp	.85	.71	.62
314704CM	+	TLC374CN	DIP-14	LinCMOS quad differential comp	.76	.64	.48
310404CM	+	TS374IN	DIP-14	Quad low power CMOS volt comp	.93	.80	.72

\*10 pcs. included in Linear kit, below \*\*20 pcs. in Linear kit, below + Jameco Value Offering

## Linear and Interface IC Kit

SAVE \$70

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003AN, ULN2803A, NE5532N, 7808T, 78L12CZ, 7815T, 7905T, 7912CT, 7915CT



84988CM

Part No.	Description	Wt. (lbs.)	1	10
84988CM	480 pcs. (40 types) analog IC kit	6.0	\$182.95	\$164.65
130411CM	Refill for 84988CM (480 pcs.)	1.3	169.95	145.95

## Comparators (Continued)

Package (see pg 37)

\* Minimum order 10 pieces

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
246633CM	+	LM392M	SOIC-8	Low power op amp/volt comp	\$1.09	\$ .93	\$ .80
120900CM	+	LM392N	DIP-8	Low power op amp/volt comp	1.18	1.06	.79
246641CM	+	LM393AM	SOIC-8	Low pwr low offset volt dual comp	.41	.33	.245
212177CM	+	LM393AN	DIP-8	Low pwr low offset volt dual comp	*	.175	.135
193631CM	+	LM393D	SOIC-8	Low pwr offset voltage dual comp	*	.13	.12
24281CM	+	LM393N*	DIP-8	Dual comparator	.20	.18	.17
277093CM	+	LMV393M	SOIC-8	Low volt general purpose dual comp	\$0.85	.72	.53
315328CM	+	TL712CD	SOIC-8	Differential comparator	1.25	1.06	.79
214041CM	TI	TL712CP	DIP-8	Differential comparator	1.00	.54	.49
278256CM	TI	TL714CP	DIP-8	High speed differential comparator	2.55	2.49	2.15
277173CM	NSC	LMC7211AM	SOIC-8	Comp w/ rail-to-rail input, push pull output	1.35	1.20	.89
277190CM	NSC	LMC7211BM	SOIC-8	Comp w/ rail-to-rail input, push pull output	1.25	1.05	.85
277114CM	NSC	LMC7221AM	SOIC-8	Comp w/ rail-to-rail input, open drain output	\$1.59	1.29	1.19
297844CM	+	MAX902CSD	SOIC-14	Hi-speed low pwr precision volt comp	8.49	7.63	6.87
291143CM	LTC	LT1016CN	DIP-8	Fast precision comparator 10ns	4.55	3.55	2.65
312266CM	LTC	LT1016CS8	SOIC-8	Ultra-fast precision 10ns comparator	4.89	3.55	2.76
310279CM	TI	TLV2352ID	SOIC-8	LinCMOS dual low volt diff comp	1.69	1.55	1.49
280006CM	TI	TLV2354IN	DIP-14	LinCMOS quad low volt diff comp	2.55	2.45	2.31
245577CM	+	LM2901M	SOIC-14	Low pwr low offset volt quad comp	\$0.25	.20	.18
23296CM	+	LM2901N	DIP-14	Quad comparator	*	.13	.12
245614CM	+	LM2903M	SOIC-14	Low power low offset volt dual comp	.25	.21	.16
23309CM	+	LM2903N	DIP-8	Low power low offset volt dual comp	.31	.27	.203
311036CM	TI	TL3016CD	SOIC-8	Ultra-fast low pwr precision comp	1.85	1.47	1.10
278213CM	TI	TL3016ID	SOIC-8	Ultra-fast low pwr precision comp	2.09	1.95	1.83
278230CM	TI	TL3116CD	SOP-8	Ultra-fast low pwr precision comp	1.85	1.60	1.50
278221CM	TI	TL3116ID	SOP-8	Ultra-fast low pwr precision comp	1.85	1.75	1.62
245711CM	+	LM3302D	SOIC-14	Low pwr low offset volt quad comp	\$0.54	.43	.37
107238CM	+	LM3302N	DIP-14	Low pwr low offset volt quad comp	.33	.28	.21
309964CM	+	TLC3704CD	SOIC-14	LinCMOS quad micro volt comp	.84	.70	.58
280137CM	+	TLC3704CN	DIP-14	Quad uPwr LinCMOS volt comp	1.00	.90	.84
277202CM	NSC	LMC6722AM	SOIC-8	Dual uPwr rail-to-rail input w/ open drain output	2.35	1.81	1.35

\*10 pcs. in Linear kit, below + Jameco Value Offering

## Buffers

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23051CM	+	LH0002CN	DIP-10	General purpose buffer	\$12.25	\$10.25	\$7.95
277552CM	TI	BUF634P	DIP-8	250mA high speed buffer	5.05	5.00	4.78
277544CM	TI	BUF634T	TO-220	250mA high speed buffer	7.85	7.60	6.35
277579CM	TI	BUF634U	SOIC-8	250mA high speed buffer	5.45	5.15	4.79
300249CM	LTC	LT1010CN8	DIP-8	150mA high speed buffer	3.65	2.45	2.13

+ Jameco Value Offering

## Op Amps


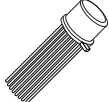
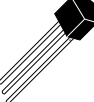
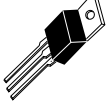


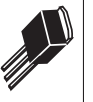





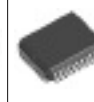
Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
27852CM	+	OP07CP	DIP-8	Ultra-low offset voltage op amp	\$ .61	\$ .59	\$ .56
252988CM	+	OP07DP	DIP-8	Very low offset single bipolar op amp	.62	.52	.39
23106CM	+	LM10CLN	DIP-8	Low voltage (1.1 volt) op amp	1.69	1.57	1.42
120715CM	+	LM10CN	DIP-8	Op amp and voltage reference	2.45	1.90	1.43
120723CM	NSC	LM12CLK	TO-3/4	80W op amp	17.05	16.10	15.30
213090CM	+	TL022CP	DIP-8	Dual low power op amp	.58	.53	.48
252996CM	+	OP27EZ	CDIP-8	Low noise hi spd prec op amp	12.25	11.50	11.05
115300CM	+	OP27EP	DIP-8	Low noise precision op amp	4.39	3.57	2.67
115318CM	+	OP27GP	DIP-8	Low noise prec op amp (-40° to 80°C)	1.89	1.54	1.15
275805CM	TI	OPA27GP	DIP-8	Ultra-low noise precision op amp	2.05	1.95	1.79
275784CM	TI	OPA27GU	SOIC-8	Ultra-low noise precision op amp	2.05	1.35	1.01
253032CM	+	TL031CD	SOIC-8	Enhanced JFET low pwr/offset op amp	\$0.71	.52	.49
213102CM	+	TL031CP	DIP-8	Enhanced JFET low pwr/offset op amp	\$0.71	.57	.48
279671CM	+	TL032ACP	DIP-8	Enhanced JFET low pwr/offset op amp	1.85	1.67	1.51
253059CM	+	TL032CD	SOIC-8	Enhanced JFET low pwr/offset op amp	.67	.61	.56
213111CM	+	TL032CP	DIP-8	Enhanced JFET low pwr/offset op amp	.69	.63	.57
253235CM	+	TL034CD	SOIC-14	Enhanced JFET low pwr/offset op amp	1.04	.91	.83
214068CM	+	TL034CN	DIP-14	Enhanced low pwr/offset op amp	1.05	.89	.82
275768CM	+	OPA37GP	DIP-8	Ultra-low noise precision op amp	2.45	2.19	1.97
275750CM	+	OPA37GU	SOIC-8	Ultra-low noise precision op amp	2.15	2.05	1.97

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Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

TO-3	TO-5/TO-52	TO-92	TO-220	TO-252	TO-263	DD	DIP	SOIC & SOP	SOT-23	SOT-223	MW	PLCC
												

## Manufacturer Cross Reference Table

Jameco Value Offering 

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI

## Op Amps (Continued)

\* Minimum order 10 pieces

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
213129CM	+	TL052ACP	DIP-8	Enh. JFET low offset op amp	\$3.69	\$3.34	\$3.03
309981CM	+	TL052CD	SOIC-8	Dual Enhanced JFET prec op amp	1.27	1.03	.77
253243CM	+	TL054ACD	SOIC-14	Enhanced JFET low offset op amp	6.25	5.61	4.35
213153CM	+	TL054ACN	DIP-14	Enhanced JFET low offset op amp	4.25	3.99	2.79
242106CM	+	TL061IP	DIP-8	Low power JFET op amp	\$0.79	.63	.48
252283CM	+	TL062ACD	SOIC-8	Low power JFET input op amp	.59	.50	.38
33161CM	+	TL062CP	DIP-8	Low power JFET op amp (high slew)	.27	.25	.22
253139CM	+	TL064BCN	DIP-14	Low power JFET input op amp	.69	.59	.44
33179CM	+	TL064CN	DIP-14	Low power JFET input op amp	.53	.42	.32
213081CM	+	TL071ACP	DIP-8	Low noise JFET input op amp	.59	.44	.33
33187CM	+	TL071CP	DIP-8	Low noise JFET op amp	.33	.31	.232
278264CM	+	TLC071CD	SOIC-8	Wide-band, high-output drive op amp	.99	.90	.68
278272CM	+	TLC071IP	DIP-8	Wide-band, high-output drive op amp	.99	.89	.76
213073CM	+	TL072ACP	DIP-8	Low noise JFET input op amp	.56	.43	.31
253147CM	+	TL072BCP	DIP-8	Low noise JFET input op amp	.65	.55	.41
193501CM	+	TL072CD	SOIC-8	Low noise JFET dual op amp	.26	.22	.18
33195CM	+	TL072CP	DIP-8	Low noise JFET dual op amp	.26	.25	.24
278299CM	+	TLC072CD	SOIC-8	Wide-band, high-output drive op amp	1.25	1.10	1.05
278281CM	+	TLC072CP	DIP-8	Wide-band, high-output drive op amp	1.11	.90	.67
213065CM	+	TL074BCN	DIP-14	Low noise JFET input op amp	\$0.51	.41	.34
33216CM	+	TL074CN	DIP-14	Low noise JFET quad op amp	.48	.43	.345
278328CM	+	TLC074CN	DIP-14	Wide-band, high-output drive	1.85	1.51	1.43
278352CM	+	TLC080AIP	DIP-8	Wide-band, high-out drive, impr. offset	1.08	.90	.82
278344CM	+	TLC080IP	DIP-8	Wide-band, high-output drive	1.08	.95	.82
213057CM	+	TL081ACP	DIP-8	JFET input op amp, low offset w/ control	.46	.42	.31
253155CM	+	TL081CD	SOIC-8	JFET input op amp	\$0.39	.33	.28
33232CM	+	TL081CP	DIP-8	JFET input op amp, offset control	.31	.30	.23
214076CM	+	TL082ACP	DIP-8	JFET input op amp, low offset	.34	.32	.29
253198CM	+	TL082BCP	DIP-8	JFET input op amp, lowest offset	.62	.46	.37
193527CM	+	TL082CD	SOIC-8	JFET input dual op amp	*	.16	.14
33241CM	+	TL082CP	DIP-8	JFET input dual op amp	.53	.40	.30
214084CM	+	TL084ACN	DIP-14	JFET input op amp	.34	.32	.27
253219CM	+	TL084BCD	SOIC-14	JFET input op amp	\$0.56	.45	.43
193535CM	+	TL084CD	SOIC-14	JFET input quad op amp	.30	.29	.25
33267CM	+	TL084CN	DIP-14	JFET input quad op amp	.43	.40	.37
282626CM	+	LM124D	SOIC-14	Low power quad op amp mil temp	.69	.55	.49
126818CM	+	LM124J	CDIP-14	Low power quad op amp mil temp	\$2.59	1.55	1.38
276488CM	TI	OPA124U	SOIC-8	Low noise prec. BiFET op amp	7.49	7.15	6.85
276496CM	TI	OPA124UA	SOIC-8	Low noise prec. BiFET op amp, low offset	8.95	8.55	8.15
275856CM	TI	OPA130UA	SOIC-8	Low power precision FET input	2.65	2.55	2.42
243686CM	+	OPA137PA	DIP-8	FET op amp	1.39	1.31	1.25
243694CM	+	OPA137UA	SOIC-8	FET input op amp	1.29	1.20	1.14
302480CM	+	LM158H	TO-5	Low power dual op amp	4.19	3.22	2.41
302412CM	+	LM201AD	SOIC-8	Op amp industrial temp	.45	.42	.31
302404CM	+	LM201AN	DIP-8	Op amp industrial temp	.58	.55	.50
302341CM	+	LM224D	SOIC-14	Low power quad industrial temp	.25	.23	.17
302359CM	+	LM224J	CDIP-14	Low power quad industrial temp	3.65	3.35	3.00
212118CM	+	LM224N	DIP-14	Low power quad industrial temp	.21	.19	.14
275813CM	TI	OPA234UA	SOIC-8	Low pwr precision single supply	2.15	1.92	1.73
315230CM	+	TLC252BCD	SOIC-8	LinCMOS dual op amp	1.85	1.65	1.25
315221CM	+	TLC252BCP	DIP-8	LinCMOS dual op amp	2.19	2.16	2.14
302261CM	+	LM258D	SOIC-8	Low pwr dual op amp industrial temp	.26	.25	.23

\*10 pcs. in Linear kit, pg 34

## Op Amps (Continued)

\* Minimum order 10 pieces

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
212142CM	+	LM258N	DIP-8	Low pwr dual op amp industrial temp	\$3.35	\$3.32	\$2.24
279742CM	TI	TLC271CD	SOIC-8	LinCMOS prog low pwr op amp	.75	.58	.43
279734CM	TI	TLC271CP	DIP-8	LinCMOS prog low pwr op amp	.55	.50	.45
279806CM	+	TLC272CD	SOIC-8	LinCMOS prec. dual op amp	.60	.52	.39
143917CM	+	TLC272CP	DIP-8	LinCMOS prec. dual op amp	.72	.55	.46
280233CM	TI	TLC272CD	SOIC-8	LinCMOS prec. dual op amp, high gain	.59	.44	.38
280225CM	TI	TLC272CP	DIP-8	LinCMOS prec. dual op amp, high gain	.53	.49	.36
280188CM	TI	TLC272MCD	SOIC-8	LinCMOS prec. dual op amp, med. gain	.53	.45	.38
280170CM	TI	TLC272MCP	DIP-8	LinCMOS prec. dual op amp, med. gain	.53	.44	.38
242000CM	+	TLC274ACN	DIP-14	Quad precision op amp, low offset	.71	.66	.60
242018CM	+	TLC274BCN	DIP-14	Quad prec op amp, lower offset	.85	.80	.78
242026CM	+	TLC274CN	DIP-14	CMOS precision quad op amp	.57	.48	.43
242034CM	+	TLC274IN	DIP-14	Quad CMOS op amp	\$0.72	.41	.38
280217CM	TI	TLC274CD	SOIC-14	LinCMOS prec. quad op amp, high gain	\$0.74	.63	.54
280209CM	TI	TLC274CN	DIP-14	LinCMOS prec. quad op amp, high gain	\$0.62	.57	.54
280161CM	TI	TLC274MCD	SOIC-14	LinCMOS prec. quad op amp, med. gain	.73	.62	.46
312784CM	+	TLC277CD	SOIC-8	LinCMOS prec. dual op amp, low offset	1.49	1.26	1.20
280241CM	+	TLC277CP	DIP-8	Prec. dual op amp, low offset	1.47	1.18	.98
280196CM	+	TLC277CD	SOIC-8	Prec. dual op amp, high gain, low offset	1.34	1.18	1.12
280145CM	TI	TLC277MCD	SOIC-8	Prec. dual op amp, med. gain, low offset	1.35	1.23	1.12
280153CM	TI	TLC277MCP	DIP-8	Prec. dual op amp, med. gain, low offset	1.39	1.24	1.12
245665CM	+	LM301AH	TO-5/8	Operational amplifier	2.15	1.64	1.27
212151CM	+	LM301AN	DIP-8	Operational amplifier	.34	.32	.28
245673CM	+	LM308AH	TO-5/8	Precision op amplifier	3.29	2.51	1.95
23464CM	+	LM308N	DIP-8	Precision op amplifier	5.49	4.99	4.36
245681CM	+	LM318M	SOIC-8	Precision high speed op amplifier	\$1.15	.95	.75
23608CM	+	LM318N	DIP-8	Precision high speed op amplifier	.59	.54	.48
245702CM	+	LM324AM	SOIC-14	Low power quad op amp, impr. offset	.29	.25	.21
212169CM	+	LM324AN	DIP-14	Low power quad op amp, impr. offset	.29	.25	.22
86721CM	+	LM324D	SOIC-14	Low power quad op amplifier	.21	.18	.13
23683CM	+	LM324N	DIP-14	Low power quad op amplifier	.28	.24	.21
192559CM	+	LP324N	DIP-14	Micropower quad op amplifier	\$0.75	.44	.40
241963CM	+	LMV324M	SOIC-14	Low voltage, general purpose	.72	.55	.412
245438CM	+	LF347BD	SOIC-14	Quad JFET input (wide BW, impr. offset)	1.15	1.10	1.07
245420CM	+	LF347M	SOIC-14	Quad JFET input (wide bandwidth)	.75	.65	.50
22904CM	+	LF347N	DIP-14	Quad JFET input op amp (wide band)	.35	.29	.24
275776CM	+	OPA347PA	DIP-8	Micropower rail-to-rail op amp	1.15	.97	.80
246570CM	+	LM348M	SOIC-14	Quad 741 op amplifier	.89	.71	.52
23915CM	+	LM348N	DIP-14	Quad 741 op amp (UPC4741C)	.24	.18	.14
22912CM	+	LF351N	DIP-8	BIFET op amplifier	.39	.35	.29
245518CM	+	LF353D	SOIC-8	Dual JFET input (wide bandwidth)	.37	.30	.225
22939CM	+	LF353N	DIP-8	Dual BIFET (comp w/ TL082CP)	.39	.37	.35
193607CM	+	LF356M	SOIC-8	JFET input op amplifier (wide band)	\$0.68	.41	.37
22971CM	+	LF356N	DIP-8	JFET input op amplifier (wide band)	.79	.67	.49
22998CM	+	LF357N	DIP-8	JFET input op amp (wide band decomp.)	2.55	2.30	1.72
246588CM	+	LM358AM	SOIC-8	Low power dual op amp, impr. offset	.23	.22	.165
120862CM	+	LM358AN	DIP-8	Low power dual (improved 358N)	.29	.25	.23
193615CM	+	LM358D	SOIC-8	Low power dual op amplifier	*	.14	.105
23966CM	+	LM358N	DIP-8	Low power dual op amplifier	.24	.21	.18
277106CM	+	LMV358M	SOIC-8	Low volt rail-to-rail output dual	.85	.62	.46
276736CM	+	MAX410CPA	DIP-8	Single 28MHz low noise, low volt prec	4.65	4.25	3.79
119941CM	+	LFA11ACN	DIP-8	Low offset low drift JFET input	\$2.95	2.19	1.98

\*10 pcs. in Linear kit, pg 34

\*\*20 pcs. in Linear kit, pg 34

†Jameco Value Offering

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend
New Sale Lower\$ QtySave



Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## Op Amps (Continued)

Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23018CM	+	LF411CN	* DIP-8	Low offset drift JFET input op amp	\$1.35	\$1.00	\$ .75
193640CM	+	LF412CD	SOIC-8	Low offset drift JFET input dual	.27	.24	.22
23026CM	+	LF412CN	* DIP-8	Low offset drift JFET input dual	1.03	.76	.56
106681CM	+	LF442CN	DIP-8	Dual low power JFET input op amp	1.35	.99	.74
119984CM	+	LF444ACN	DIP-14	Quad low pwr JFET input op amp, low Vos	1.95	1.76	1.60
119992CM	+	LF444ACN	DIP-14	Quad low pwr JFET input op amp	1.38	1.02	.69
312805CM	ADI	OP467GP	DIP-14	Quad precision high speed op amp	12.09	11.48	10.91
312813CM	ADI	OP467GS	SOIC-16	Quad precision high speed op amp	8.45	7.25	6.35
276613CM	MAX	MAX474CSA	SOIC-8	Dual 10MHz single supply op amp	4.45	4.05	3.63
276541CM	MAX	MAX492CPA	DIP-8	Dual upwr, single supply rail-to-rail	5.09	4.05	3.63
276533CM	MAX	MAX492CSA	SOIC-8	Dual upwr, single supply rail-to-rail	4.45	3.51	2.28
311773CM	MCH	MCP601-I/P	DIP-8	2.8MHz, 2.7V-5.5V single supply CMOS	.60	.55	.525
311749CM	MCH	MCP602-I/P	DIP-8	Dual, 2.8MHz, 2.7V-5.5V single supply CMOS	.72	.71	.68
311765CM	MCH	MCP602-I/5N	SOIC-8	Dual, 2.8MHz, 2.7V-5.5V single supply CMOS	.77	.71	.68
311731CM	MCH	MCP603-I/P	DIP-8	Single w/ CS, 2.8MHz, 2.7V-5.5V single CMOS	.63	.58	.551
311239CM	MCH	MCP652-I/P	DIP-8	1-ch PGA low-gain single-ended rail-to-rail I/O	1.55	1.50	1.45
311255CM	MCH	MCP652-I/P	DIP-8	2-ch PGA low-gain single-ended rail-to-rail I/O	1.89	1.80	1.72
311247CM	MCH	MCP652-I/5N	SOIC-8	2-ch PGA low-gain single-ended rail-to-rail I/O	1.85	1.78	1.72
310367CM	ADI	AD626AN	DIP-8	Low-cost single supply diff amplifier	5.75	5.05	4.90
313314CM	ADI	AD626AR	SOIC-8	Low-cost single supply diff amplifier	5.95	5.62	5.38
311221CM	MCH	MCP658-I/P	DIP-8	8-ch prog. low-gain single-ended rail-to-rail I/O	3.35	3.18	3.03
267266CM	+	LMC660CM	SOIC-14	CMOS quad operational amplifier	1.55	1.16	.87
143976CM	+	LMC660CM	DIP-14	CMOS quad operational amplifier	1.35	1.20	.90
120926CM	+	LM675T	TO-220/5	Power op amplifier	4.75	4.05	4.01
24491CM	+	LM733CN	DIP-14	Differential amplifier	1.15	.99	.89
24521CM	+	LM741CH	TO-5/8	Op amplifier	2.75	2.45	2.23
24539CM	+	LM741CN	* DIP-8	Op amplifier	.29	.25	.19
24563CM	+	LM747CN	DIP-14	Dual 741 op amplifier	4.19	3.85	3.39
299938CM	+	LM747H	TO-10	Dual op amplifier	3.59	3.29	3.07
311132CM	ADI	AD811AN	DIP-8	High performance video op amp	5.75	5.24	4.84
277085CM	NSC	LMV824M	SOIC-14	5MHz quad low pwr, low volt, rail-to-rail	1.45	1.05	.92
246668CM	NSC	LM837M	SOIC-14	Low noise quad operational amp	1.29	1.05	.80
143896CM	NSC	LM837N	DIP-14	Low noise quad operational amp	1.35	1.12	.82
239222CM	LTC	LT1001CN8	DIP-8	Precision op amplifier	2.05	1.65	1.24
239231CM	LTC	LT1002CN	DIP-14	Dual matched precision op amp	4.09	2.94	2.42
239214CM	LTC	LT1006CN8	DIP-8	Precision op amplifier	2.39	1.61	1.38
300231CM	LTC	LT1007CS8	SOIC-8	Low noise high speed precision	3.45	2.30	1.83
239273CM	LTC	LT1012CN8	DIP-8	Picoamp input curr, microvolt offset, low noise	3.95	2.80	2.34
239169CM	+	LT1013CP	DIP-8	Dual precision op amplifier	1.16	.94	.71
252005CM	+	LT1013DD	SOIC-8	Dual precision op amplifier	.86	.73	.55
239177CM	+	LT1014DN	DIP-14	Quad precision op amplifier	3.29	2.99	2.89
300193CM	LTC	LT1050CN8	DIP-8	Precision zero-drift w/ int. cap	3.35	2.27	1.70
193682CM	+	LM1458M	SOIC-8	Dual op amplifier	.26	.22	.165
23131CM	+	LM1458N	* DIP-8	Dual op amplifier	.29	.26	.20
302498CM	+	LM1815N-MD	DIP-14	Adaptive variable sensor amp	3.05	2.32	1.74
310172CM	TI	TLE2021CD	SOIC-8	Excalibur hi speed low pwr prec	1.05	.86	.79
280129CM	TI	TLE2021CP	DIP-8	Excalibur hi speed low pwr prec	1.05	.88	.66
310236CM	TI	TLE2022CD	SOIC-8	Excal hi spd LP dual prec op amp	1.35	1.30	1.27
280111CM	TI	TLE2022CP	DIP-8	Excal hi spd LP dual prec op amp	1.39	1.25	1.18
280102CM	TI	TLE2024CDW	SOIC-16	Excal hi spd LP quad prec op amp	2.65	2.56	2.29
280090CM	TI	TLE2024CN	DIP-14	Excal hi spd LP quad prec op amp	2.65	2.53	2.28
310658CM	TI	TLE2027CD	SOIC-8	Excal hi spd LP low offset prec op amp	1.75	1.65	1.55
310682CM	TI	TLE2072CD	SOIC-8	Excalibur low noise hi speed JFET input	1.75	1.48	1.31
310674CM	TI	TLE2072CP	DIP-8	Excalibur low noise hi speed JFET input	1.89	1.85	1.77
275848CM	TI	OPA2131U	SOIC-8	General purpose FET-input op amp	2.55	2.45	2.34
279996CM	TI	TLV2450CP	DIP-8	Rail-to-rail I/O op amp w/ shutoff	.92	.85	.63
279988CM	TI	TLV2451CD	SOIC-8	Rail-to-rail I/O op amp	1.09	.97	.90
279970CM	TI	TLV2451CP	DIP-8	Rail-to-rail I/O op amp	1.09	.96	.90
272209CM	TI	TLV2454CD	SOIC-14	4-ch r-r I/O op amp	1.85	1.76	1.59
279961CM	TI	TLV2454CN	DIP-14	4-ch r-r I/O op amp	1.85	1.75	1.60
310308CM	TI	TLV2474CD	SOIC-14	Quad LP r-r input/output w/ shutoff	2.09	1.79	1.73
279945CM	TI	TLV2474CN	DIP-14	2.8MHz r-r I/O hi drive w/ shutoff	1.85	1.70	1.57
279953CM	TI	TLV2474IN	DIP-14	2.8MHz r-r I/O hi drive w/ shutoff, ext. temp.	1.95	1.80	1.65
315096CM	+	TLC27L28CD	SOIC-8	LinCMOS precision dual op amp	.64	.59	.58
315088CM	+	TLC27L28CP	DIP-8	LinCMOS precision dual op amp	.59	.49	.40

\* 10 pcs. in Linear kit, pg 34 \*\* 20 pcs. in Linear kit, pg 34

+ Jameco Value Offering

Blue Part No. = Limited Quantity Available

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Op Amps (Continued) \* Minimum order 10 pieces

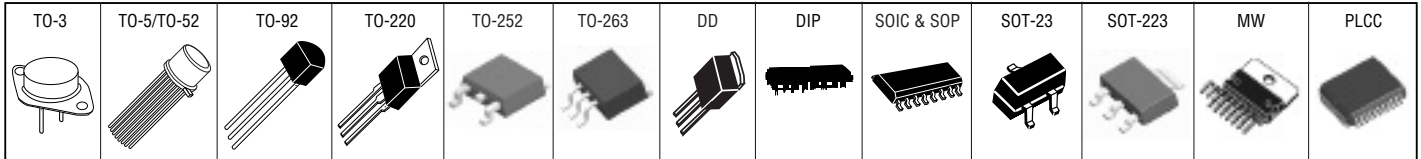
Package (see pg 37)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
315061CM	+	TLC27L4ACD	SOIC-14	LinCMOS precision quad op amp	\$ .67	\$ .56	\$ .49
315053CM	+	TLC27L4ACN	DIP-14	LinCMOS precision quad op amp	.60	.51	.48
245606CM	+	LM2902M	SOIC-14	Low power quad op amplifier	.25	.21	.16
57007CM	+	LM2902N	DIP-14	Low power quad op amplifier	.25	.23	.22
245622CM	+	LM2904M	SOIC-8	Low power dual op amplifier	*	.13	.12
121005CM	+	LM2904N	DIP-8	Low power dual op amplifier	.23	.22	.18
278141CM	TI	THS3001CD	SOIC-8	420MHz hi-speed curr. feedback	5.05	4.95	4.78
12116CM	+	CA3080E	DIP-8	Op transconductance amp. (100135)	2.95	2.65	2.39
12183CM	+	CA3130E	DIP-8	CMOS op amplifier	.81	.72	.69
12204CM	+	CA3140E	DIP-8	Bi-MOS op amplifier	.51	.47	.42
246721CM	+	MC3303D	SOIC-14	Quad op amplifier	\$0.52	.42	.33
212193CM	+	MC3403N	DIP-14	Quad bipolar op amplifier	.42	.37	.27
246617CM	+	LM3900D	SOIC-14	Quad amplifier	\$0.78	.62	.53
24168CM	+	LM3900N	DIP-14	Quad amplifier	.77	.65	.53
239185CM	TI	THS4031CD	SOIC-8	100MHz op amp	\$0.65	3.45	3.35
278150CM	TI	THS4032CD	SOIC-8	100MHz low noise hi-speed amp.	6.05	5.65	5.26
278176CM	TI	THS4082CD	SOP-8	175MHz LP hi-speed amp.	5.29	4.95	4.63
278168CM	TI	THS4082ID	SOP-8	175MHz LP hi-speed amp., I-temp.	5.05	4.95	4.79
279929CM	TI	TLV4112CD	SOIC-8	High output drive w/ shutdown	1.75	1.44	1.35
29356CM	+	RC4136N	DIP-14	Quad op amp. (XR4136)	.68	.63	.47
275741CM	+	OPA4137PA	DIP-14	Low cost FET input op amp.	2.05	1.95	1.90
211072CM	+	LMC4250CN	DIP-8	Programmable op amp.	.69	.62	.52
251256CM	TI	TLC4501ACD	SOIC-8	Prec. CMOS r-r output, low offset op amp.	2.35	2.25	2.09
300767CM	TI	TLC4501AID	SOP-8	Prec. CMOS r-r output, low offset	2.35	2.20	1.90
251264CM	TI	TLC4501CD	SOIC-8	Prec. CMOS r-r output	2.25	2.15	2.02
251281CM	TI	TLC4502AID	SOIC-8	Dual prec. CMOS r-r output, low offset	3.55	3.40	3.20
310092CM	TI	TLC4502AID	SOP-8	Dual prec. CMOS r-r output, low offset	3.69	3.55	3.37
251272CM	TI	TLC4502ID	SOIC-8	Dual prec. CMOS r-r output	3.25	3.15	3.01
254861CM	FSC	KA4558	DIP-8	Dual op amplifier	.41	.336	.252
251150CM	+	MC4558CD	SOIC-8	Wide bandwidth dual bipolar op amp	.39	.30	.22
251125CM	+	MC4558CN	DIP-8	Wide bandwidth dual bipolar op amp	.27	.25	.23
311933CM	+	EL5100IS	SOIC-8	200MHz slew enhanced volt feedback	1.99	1.93	1.88
311941CM	+	EL5106IS	SOIC-8	350MHz fixed gain amplifier w/ enable	1.85	1.80	1.76
311925CM	+	EL5108IS	SOIC-8	450MHz fixed gain amplifier w/ enable	2.05	1.99	1.93
252970CM	+	NE5532AP	DIP-8	Dual lower noise op amplifier	.50	.45	.39
27385CM	+	NE5532N	* DIP-8	Dual lower noise op amplifier	.66	.50	.38
27406CM	+	NE5534	DIP-8	Low noise op amplifier	.78	.66	.54
193746CM	+	NE5534D	SOIC-8	Low noise op amplifier	.56	.49	.37
311001CM	MCH	MCP602-I/P	DIP-8	1MHz bandwidth low power op amp	.45	.42	.40
310990CM	MCH	MCP602-I/5N	SOIC-8	1MHz bandwidth low power op amp	.43	.415	.40
311714CM	MCH	MCP602-I/5N	SOIC-8	2.5V, 10MHz r-r input/output	1.27	1.16	1.11
311722CM	MCH	MCP602-I/P	DIP-8	2.5V, 10MHz r-r input/output	1.27	1.24	1.18
266950CM	NSC	LMC6035IBP	µSMD-8	Low pwr 2.7V single supply CMOS	\$1.34	1.15	.84
301241CM	NSC	LMC6035IM	SOIC-8	Low pwr 2.7V single supply CMOS	1.34	.99	.72
267039CM	NSC	LMC6041N	DIP-8	CMOS single micropower op amp.	1.30	1.11	.83
302121CM	NSC	LM6132AIM	SOIC-8	Dual LP r-r in/out, 10MHz, lower VOS	2.85	2.65	2.55
302105CM	NSC	LM6132BIM	SOIC-8	Dual LP r-r in/out, 10MHz	2.19	2.00	1.87
302113CM	NSC	LM6132BIN	DIP-8	Dual LP r-r in/out, 10MHz	2.19	2.14	2.09
302009CM	NSC	LM6134AIM	SOIC-14	Quad LP r-r in/out, 10MHz, lower VOS	3.55	3.15	2.95
302084CM	NSC	LM6134BIM	SOIC-14	Quad LP r-r in/out, 10MHz	2.79	2.50	2.45
302076CM	NSC	LM6134BIN	DIP-14	Quad LP r-r in/out, 10MHz	2.79	2.50	2.45
302068CM	NSC	LM6142AIM	SOIC-8	Dual r-r in/out, 17MHz	4.35	3.85	3.62
301997CM	NSC	LM6144BIM	SOIC-14	Quad r-r in/out, 17MHz	\$4.85	4.35	4.27
301989CM	NSC	LM6152ACM	SOIC-8	Dual r-r in/out, 75MHz GBW	3.25	3.15	3.10
301891CM	NSC	LM6171AIM	SOIC-8	Hi speed, LP low distortion, lower VOS	2.75	2.45	2.35
301882CM	NSC	LM6171BIM	SOIC-8	Hi speed, LP low distortion volt feedback	2.35	2.10	2.01
301903CM	NSC	LM6171BIN	DIP-8	Hi speed, LP low distortion volt feedback	2.35	1.80	1.40
311992CM	NSC	LM6181IM	SOIC-8	100mA, 100MHz current feedback	2.15	1.85	1.38
301874CM	NSC	LM6181IN	DIP-8	100mA, 100MHz current feedback	\$2.39	2.19	1.69
267063CM	NSC	LM6482AIM	SOIC-8	Dual µpwr single-supply r-r, lower VOS	2.05	1.95	1.85
301436CM	NSC	LMC6442IM	SOIC-8	Dual µpwr r-r output single supply	2.25	1.92	1.62
301364CM	NSC	LMC6442IN	DIP-8	Dual µpwr r-r output single supply	2.25	1.95	1.75
267119CM	NSC	LMC6462AIM	SOIC-8	Dual µpwr single-supply r-r I/O CMOS, lower VOS	2.39	2.16	1.95
126906CM	NSC	LMC6462AIN	DIP-8	µpwr r-r I/O CMOS op amp., lower VOS	2.19	2.00	1.81
126893CM	NSC	LMC6482AIM	DIP-8	CMOS dual r-r input/output, lower VOS	1.89	1.43	1.07

\* 10 pcs. in Linear kit, pg 34

+ Jameco Value Offering

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## Manufacturer Cross Reference Table

Jameco Value Offering +

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI

## Op Amps (Continued)

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
251168CM	NSC	LMC6482AIM	SOIC-8	CMOS dual r-r I/O, lower VOS	\$1.55	\$1.15	\$1.05
267127CM	NSC	LMC6482IM	SOIC-8	CMOS dual r-r I/O op amp.	\$1.55	1.29	.98
267223CM	NSC	LMC6482IM	DIP-8	CMOS dual r-r I/O op amp.	1.55	1.13	.84
267240CM	NSC	LMC6484AIM	SOIC-14	CMOS quad r-r I/O op amp., lower VOS	2.75	2.09	1.75
301356CM	NSC	LMC6484AIM	DIP-14	CMOS quad r-r I/O op amp., lower VOS	2.99	2.09	1.82
267258CM	NSC	LMC6484IM	SOIC-14	CMOS quad r-r I/O op amp.	2.15	1.62	1.28
311811CM	NSC	LMH6702MA	SOIC-8	Single ultra low-distortion, wideband	2.99	2.48	2.40
251871CM	NSC	LMC7101AIMS	SOT-23/5	Tiny low power w/ r-r I/O	1.03	.76	.57
251900CM	NSC	LMC7111AIM	DIP-8	Tiny CMOS op amp. w/ r-r I/O	1.39	1.03	.84
301807CM	NSC	LM7171AIM	SOIC-8	Hi speed hi output current volt feedback	2.39	2.15	1.98
301794CM	NSC	LM7171AIM	DIP-8	Hi speed hi output current volt feedback	2.39	2.15	1.98
301751CM	NSC	LM7171BIM	SOIC-8	Hi speed hi output current volt feedback	2.25	2.15	1.98
301823CM	NSC	LM7171BIM	DIP-8	Hi speed hi output current volt feedback	2.35	1.95	1.75
301840CM	NSC	LM7121IM	SOIC-8	235MHz tiny low pwr. volt. feedback	2.49	1.87	1.45
301701CM	NSC	LM7301IM	SOIC-8	Low pwr r-r in/pout, 4MHz GBW	1.75	1.31	1.15
301655CM	NSC	LM7301IM5	SOT-23/5	Low pwr r-r in/pout, 4MHz GBW	\$1.75	1.49	1.11
315281CM	+	ICL7611DCBA	SOIC-8	1.4MHz LP CMOS op amp.	.62	.59	.57
315272CM	+	ICL7611DCPA	DIP-8	1.4MHz LP CMOS op amp.	.69	.63	.58
311159CM	ADI	AD8002AR	SOIC-8	Dual 600MHz, 50mW, curr. feedback	4.85	4.19	3.95
312776CM	ADI	AD8042AR	SOIC-8	Low-cost high speed r-r	3.95	3.05	2.50
312750CM	ADI	AD8052AR	SOIC-8	Low-cost high speed r-r	2.55	2.08	1.75
312768CM	ADI	AD8052ARM	μSO-8	Low-cost high speed r-r	3.35	2.54	1.91
255257CM	ADI	AD8091AR	SOIC-8	Low-cost high speed r-r	1.10	1.09	1.08
255231CM	ADI	AD8092ARM	μSO-8	Low-cost high speed r-r	\$1.45	1.25	1.20
311095CM	ADI	AD8307AN	DIP-8	Low-cost DC-500MHz 92dB logarithmic	13.29	12.63	12.00
311116CM	ADI	AD8307AR	SOP-8	Low-cost DC-500MHz 92dB logarithmic	8.49	7.05	6.98
255206CM	ADI	AD8510AR	SOIC-8	Prec. low noise/input bias curr. JFET input	2.09	2.05	1.96
279591CM	ADI	AD8515ART	SOT-23/5	1.8V low pwr CMOS r-r I/O	.90	.80	.60
192532CM	+	LM13700N	DIP-16	Dual op transcon. w/ diodes/buffer	1.20	.88	.64
277704CM	+	MC33202P	DIP-8	Low voltage r-r op amp.	.69	.59	.49
251117CM	+	MC34072D	SOIC-8	Single supply 3V-44V op amp.	\$0.50	.42	.38
251061CM	+	MC34072P	DIP-8	Single supply 3V-44V op amp.	.91	.85	.79

Blue Part No. = Limited Quantity Available

## Linear Series

Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
25751CM	+	MF10CN	DIP-20	General purpose dual active filter	\$3.09	\$2.37	\$1.95
16301CM	+	DS0026CN	DIP-8	Dual MOS clk. driver (5MHz)(TC426CPA)	5.19	4.67	4.19
239281CM	+	DG201BDJ	DIP-16	Quad analog switch	1.34	1.25	.98
239290CM	+	DG202BDJ	DIP-16	Quad analog switch	1.99	1.90	1.81
239311CM	+	DG211BDJ	DIP-16	Quad analog switch	1.29	1.25	1.20
239329CM	+	DG211CJ	DIP-16	SPST quad channel analog switch	2.85	2.18	1.57
302332CM	+	LM231AN	DIP-8	Precision volt. to frequency conv.	7.25	7.10	7.02
302316CM	+	LM231N	DIP-8	Precision volt. to frequency conv.	4.49	4.15	3.84
302324CM	+	LM234Z-3	TO-92	3-terminal adj. current source	2.39	1.85	1.38
302308CM	+	LM234Z-6	TO-92	3-terminal adj. current source	1.40	1.05	.78
302295CM	+	LM236D	SOIC-8	2.5V voltage reference	.70	.60	.50
291080CM	+	LM285BZ-1.2	TO-92	1.2V voltage reference diode, 1% tol.	2.15	1.61	1.20
297801CM	+	LM285BZ-2.5	TO-92	2.5V voltage reference diode	2.15	1.93	1.44
312354CM	+	LM285M	SOIC-8	Adjustable micropower volt reference	.96	.71	.527
312362CM	+	LM285M-1.2	SOIC-8	1.2V micropower volt. ref. diode	\$0.79	.67	.60
312371CM	+	LM285M-2.5	SOIC-8	2.5V micropower volt. ref. diode	\$0.79	.67	.60
291055CM	+	LM285Z-1.2	TO-92	1.2V voltage reference, 20mA	.52	.43	.38
291071CM	+	LM285Z-2.5	TO-92	2.5V voltage reference, 10mA	.51	.48	.36

## Linear Series (Continued)

Package (see above)



Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
245446CM	+	MAX301CPE	DIP-16	Precision dual hi speed analog switch	\$3.05	\$2.90	\$2.82
245456CM	+	MAX301CSE	SOIC-16	Precision dual hi speed analog switch	\$0.75	3.55	3.45
245462CM	+	MAX303CPE	DIP-16	Precision dual hi speed analog switch	6.95	6.60	6.22
277051CM	+	MAX303CSE	SOIC-16	Precision dual hi speed analog switch	9.59	8.55	7.53
297828CM	+	LM331AN	DIP-8	5V precision voltage-freq. conv.	6.75	6.39	6.08
23721CM	+	LM331N	DIP-8	Prec volt to freq convtr (150ppm/°C)	2.19	1.69	1.30
245729CM	+	LM334M	SOIC-8	3-terminal adjustable current source	.82	.70	.60
23739CM	+	LM334Z	TO-92	Adjust current source	.43	.40	.30
291135CM	+	LM336BZ-2.5	TO-92	2.5V voltage reference diode	1.16	.98	.73
297676CM	+	LM336BZ-5.0	TO-92	5V voltage reference diode	\$1.55	1.32	.98
193578CM	+	LM336M-2.5	SOIC-8	Precision 2.5V shunt regulator diode	\$0.64	.38	.35
23771CM	+	LM336Z-2.5	TO-92	Voltage reference (2.5V)	.30	.22	.17
120871CM	+	LM385BZ-1.2	TO-92	Voltage reference diode (1.2V ±1.5%)	\$0.51	.29	.26
120889CM	+	LM385BZ2.5	TO-92	Voltage reference diode (2.5V ±1.5%)	.48	.37	.30
24117CM	+	LM385Z12	TO-92	Micropower volt ref diode (1.2V)	.49	.42	.31
24109CM	+	LM385Z-2.5	TO-92	Voltage reference diode (2.5V ±3%)	.37	.34	.255
23000CM	+	LF398N	DIP-8	Sample and hold circuit	.90	.87	.84
309833CM	+	DG403DJ	DIP-16	Dual SPDT (NO) & SPDT (NC) analog switch	2.95	2.73	2.05
245454CM	+	DG403DY	SOIC-16	Dual SPDT (NO) & SPDT (NC) analog switch	.90	.75	.70
245489CM	+	DG405DJ	DIP-16	DPST (NO) dual high speed analog switch	2.75	2.50	2.25
256541CM	+	DG406DJ	DIP-28	1 of 16 multiplexer/demultiplexer	4.65	3.94	2.96
272161CM	+	DG407DJ	DIP-28	8-ch multiplexer/demultiplexer	5.69	5.11	4.61
288227CM	+	DG407DN	PLCC-28	Dual 8-ch multiplexer/demultiplexer	5.85	5.42	4.99
256532CM	+	DG408DJ	DIP-16	1 of 8 multiplexer/demultiplexer	1.75	1.65	1.24
279582CM	+	DG408DY	SOIC-16	1 of 8 multiplexer/demultiplexer	1.30	1.23	.92
288243CM	+	DG409BN	DIP-16	Dual 4-channel multiplexer/demultiplexer	4.05	3.95	3.87
288260CM	+	DG409DJ	DIP-16	Dual 4-channel multiplexer/demultiplexer	1.25	1.15	1.05
279574CM	+	DG409DY	SOIC-16	Dual 4-channel multiplexer/demultiplexer	1.32	1.25	.93
243643CM	+	DG411DJ	DIP-16	Quad SPST (NC) analog switch	1.99	1.79	1.33
243651CM	+	DG411DY	SOIC-16	Quad SPST (NC) analog switch	1.89	1.80	1.35
256516CM	+	DG412DJ	DIP-16	Quad SPST (NO) analog switch	1.59	1.05	.89
245358CM	+	DG412DY	SOIC-16	Quad SPST (NO) analog switch	\$1.35	1.10	1.05
272137CM	+	DG413DY	SOIC-16	Dual SPST (NO), dual SPST (NC) analog switch	1.25	1.20	1.05
279540CM	+	DG419DJ	DIP-8	Dual SPST (NO), dual SPST (NC) analog switch	1.99	1.68	1.26
246561CM	+	DG419DY	SOIC-8	Dual SPST (NO), dual SPST (NC) analog switch	1.15	.98	.73
33347CM	+	TL431CLP	TO-92	Program precision reference	.32	.27	.20
279558CM	+	DG441DJ	DIP-16	Quad SPST (NC) analog switch	1.43	1.15	.97
256495CM	+	DG442DJ	DIP-16	Quad SPST (NO) analog switch	1.49	1.33	1.22
256508CM	+	DG442DY	SOIC-16	Quad SPST (NO) analog switch	1.08	.92	.83

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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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## Linear Series (Continued)

Package (see pg 39)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
256487CM	+	DG444DJ	DIP-16	Quad SPST (NC) analog switch	\$1.29	\$1.20	\$ .93
256479CM	+	DG444DY	SOIC-16	Quad SPST (NC) analog switch	1.22	1.13	1.04
256452CM	+	DG445DJ	DIP-16	Quad SPST (NO) analog switch	1.35	1.28	.96
256444CM	+	DG445DY	SOIC-16	Quad SPST (NO) analog switch	\$1.26	.85	.74 .68
33355CM	+	TL494CN	DIP-16	Control circuit pulse-width-modulated	.43	.37	.28
86799CM	+	LM555CM	SOIC-8	Timer (NE555D)	.25	.16	.13
27422CM	+	LM555CN	DIP-8	Timer (MC1455P/NE555V)	.29	.23	.20
246676CM	+	LMC555CM	SOIC-8	CMOS 555 timer	.59	.42	.31
126797CM	+	LMC555CN	DIP-8	CMOS 555 timer	.51	.47	.42
193658CM	+	LM556CM	SOIC-14	Dual 555 timer	.31	.26	.195
24328CM	+	LM556N	DIP-14	Dual 555 timer	.82	.60	.45
27457CM	+	NE558N	DIP-16	Quad timer (NE558C)	.68	.62	.52
27473CM	+	NE564N	DIP-16	High frequency phase locked loop	1.95	1.49	1.05
24352CM	+	LM565N	DIP-14	Phased locked loop	1.69	1.28	.96
193666CM	+	LM567CM	SOIC-8	Tone decoder	\$0.53	.26	.24 .22
24395CM	+	LM567CN	DIP-8	Tone decoder	.45	.43	.31
277691CM	+	LMC567CM	SOIC-8	Low-power tone decoder	1.38	1.18	.88
246650CM	+	LMC567CN	DIP-8	Tone decoder	1.45	1.23	.92
243387CM	+	LMC568CN	DIP-8	Low power phase-locked loop	1.65	.88	.80
27490CM	+	NE571N	DIP-16	Compander, subscriber	3.29	2.99	2.69
287700CM	+	AD580JH	TO-52	2.5V volt reference high precision	3.45	2.89	2.40
287734CM	+	AD580LH	TO-52	2.5V volt reference high precision	9.49	8.05	6.91
287785CM	ADI	AD618KH	TO-5/3	10V volt ref hi prec 10mV tolerance	8.09	7.37	6.89
287814CM	ADI	AD584JH	TO-99	Prog voltage reference 30mV tol.	5.65	5.15	4.70
288155CM	ADI	AD584KN	DIP-8	Prog voltage reference 11mV tol.	10.69	10.15	9.63
312012CM	ADI	AD586JN	DIP-8	High precision 5V reference	5.65	5.11	4.85
312004CM	ADI	AD586KR	SOIC-8	High precision 5V reference	\$0.65	5.95	5.32 .3.99
115174CM	ADI	AD620AN	DIP-8	Low-cost instrument amplifier	12.65	11.60	8.70
310383CM	ADI	AD622AR	SOIC-8	Low-cost instrument amplifier	\$4.65	4.25	3.78 3.62
115182CM	ADI	AD633JN	DIP-8	Low-cost analog multiplier	7.75	6.97	6.28
241912CM	+	TC646VOA	SOIC-8	3-5V, PWM fan controller	2.25	2.15	2.05
276509CM	+	MAX660CSA	SOIC-8	CMOS monolithic voltage converter	5.59	4.62	3.13
312194CM	+	MAX662ACPA	DIP-8	Pos. 12V 30mA flash memory prog supply	3.65	3.15	3.05
312186CM	+	MAX662ACSA	SOIC-8	Pos. 12V 30mA flash memory prog supply	4.05	2.79	2.09
312151CM	MAX	MAX724CCX	TO-220/5	5A/2A step-down PWM switch mode DC-DC reg	10.75	9.13	8.67
25435CM	+	MC846P	DIP-14	Quad 2-input gate	3.95	2.95	2.25
315969CM	+	TC962COE	SOIC-16	High current charge pump DC-DC con.	2.25	2.23	2.20
316515CM	+	TC962CPA	DIP-8	High current charge pump DC-DC con.	\$2.48	2.09	2.03 1.95
239257CM	+	LT1004C-1.2	TO-92	1.2V, micropower voltage reference	.68	.57	.46
239265CM	+	LT1004C-2.5	TO-92	2.5V, micropower voltage reference	.68	.58	.435
301541CM	+	LT1009CLP	TO-92	2.5V voltage reference diode	.55	.50	.37
300177CM	LTC	LT1009CZ	TO-92	2.5V voltage reference diode	1.99	1.32	1.15
312258CM	MAX	MAX104CPA	DIP-8	Switched capacitor volt converters	2.35	1.95	1.69
312240CM	MAX	MAX104CSA	SOIC-8	Switched capacitor volt converters	2.59	2.06	1.54
300206CM	LTC	LTC1046CS8	SOIC-8	Inductorless 5V to 5V converter	4.35	2.95	2.21
278184CM	+	TL1451ACN	DIP-16	Dual pulse-width-mod control circuit	1.85	1.51	1.13
118578CM	+	MC1495L	DIP-14	Linear four quadrant multiplier	9.95	8.95	8.05
23211CM	+	LM1496N	DIP-14	Balanced mod/demodulator (MC1496P)	.65	.60	.54
311790CM	MCH	MP1252-33K50	MSOP-8	Low-noise pos regulated charge pump	2.25	2.17	2.07
34278CM	+	ULN2003AN	*DIP-16	Hi-volt/curr. darl. transistor array	.39	.32	.28
193826CM	+	ULN2003AD	SOIC-16	Hi-volt/curr. darl. transistor array	.39	.35	.26
34294CM	+	ULN2004AN	DIP-16	Hi-volt/curr. darl. trans. array (XR2204CP)	.35	.30	.25
241891CM	+	ML2035CP	DIP-8	Serial input prog. sine wave generator	7.89	6.95	6.29
241883CM	+	ML2036CP	DIP-14	5V, 50kHz prog. sine wave generator	16.65	14.96	13.47
34972CM	+	XR2206CP	DIP-16	Monolithic function generator	3.59	3.29	2.99
34999CM	+	XR2211N	DIP-14	FSK demodulator/tone decoder	1.79	1.59	1.39
280081CM	+	TLE2425CD	SOIC-8	Precision virtual ground	1.19	.96	.72
280022CM	+	TLE2426CD	SOIC-8	Rail splitter precision virtual ground	1.19	.91	.82
280073CM	+	TLE2426CLP	TO-92	Rail splitter precision virtual ground	1.19	.91	.82
34315CM	+	ULN2803A	*DIP-18	Hi-volt/curr. darl. transistor array	.69	.59	.49
123625CM	+	LM2907N-8	DIP-8	Frequency to voltage converter	1.55	1.39	1.04
23317CM	+	LM2907N	DIP-14	Frequency to voltage converter	\$1.39	1.30	1.10 .91
245631CM	+	LM2917M	SOIC-14	Freq. to voltage conv. w/ zener	1.65	1.45	1.40
23350CM	+	LM2917N-8	DIP-8	Freq. to voltage conv. w/ zener	1.85	1.40	1.15

\*10 pcs. in linear kit, pg 34 \*\*20 pcs. in linear kit, pg 34 + Jameco Value Offering

## Linear Series (Continued)

Package (see pg 39)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
23341CM	+	LM2917N-14	DIP-14	Freq. to voltage conv. w/ zener	\$1.69	\$1.45	\$1.32
12079CM	+	CA3046N	DIP-14	NPN transistor array (ULN2046)	.49	.46	.41
12159CM	+	CA3086N	DIP-14	Transistor array NPN (ULN2086)	.99	.89	.80
12247CM	+	CA3162E	DIP-16	Dual slope & rate analog/digital conv.	7.95	7.15	6.45
31974CM	+	SG3524N	DIP-16	Regulating pulse width modulator	.53	.50	.42
235328CM	+	UC3525AN	DIP-8	SMPS Controller	.39	.36	.30
243521CM	+	UC3842AN	DIP-8	30V, curr. mode PWM contrlr, hi UVLO	.40	.37	.27
278926CM	+	UC3842D	SOIC-14	30V, curr. mode PWM contrlr, hi UVLO	.75	.60	.45
243504CM	+	UC3843AN	DIP-8	30V, curr. mode PWM controller	.40	.37	.27
279443CM	+	UC3844D	SOIC-14	30V, curr. mode PWM contrlr, hi UVLO 50% DC	.37	.35	.30
243512CM	+	UC3844N	DIP-8	30V, curr. mode PWM contrlr, hi UVLO 50% DC	.44	.38	.31
243491CM	+	UC3845N	DIP-8	30V, curr. mode PWM contrlr, 50% duty cycle	.44	.41	.35
279451CM	+	UC3846N	DIP-16	40V, current mode PWM controller	.45	.38	.32
243571CM	+	LM4040A-10	TO-92	10V, prec. $\mu$ Pwr shunt volt ref, 0.1%VR tol	.85	.77	.70
243598CM	+	LM4040A-25	TO-92	2.5V, prec. $\mu$ Pwr shunt volt ref, 0.1%VR tol	.95	.71	.53
243580CM	+	LM4040A-5.0	TO-92	5.0V, prec. $\mu$ Pwr shunt volt ref, 0.1%VR tol	\$1.59	1.14	1.04 .94
243619CM	+	LM4040C-25	TO-92	2.5V, prec. $\mu$ Pwr shunt volt ref, 0.5%VR tol	.95	.71	.53
243601CM	+	LM4040C-5.0	TO-92	5.0V, prec. $\mu$ Pwr shunt volt ref, 0.5%VR tol	.57	.53	.48
302252CM	NSC	LM4040D-25	TO-92	2.5V, prec. $\mu$ Pwr shunt volt ref, 1.0%VR tol	.81	.60	.45
302228CM	NSC	LM4040D-5.0	TO-92	5.0V, prec. $\mu$ Pwr shunt volt ref, 1.0%VR tol	.48	.44	.39
25275CM	+	MC4044P	DIP-14	Frequency phase detector	9.99	7.49	5.25
29372CM	+	RC4151NB	DIP-8	Volt to frequency converter (XR4151)	1.59	1.43	1.29
312119CM	+	TPS6734ID	SOIC-8	Fixed 12V 120mA boost converter supply	1.95	1.89	1.81
297924CM	+	TPS6734IP	DIP-8	Fixed 12V 120mA boost converter supply	1.75	1.41	1.05
312143CM	TI	TPS6735ID	SOIC-8	Fixed neg 5V 200mA invert DC/DC con	1.89	1.80	1.72
312135CM	TI	TPS6735IP	DIP-8	Fixed neg 5V 200mA invert DC/DC con	1.89	1.80	1.70
312127CM	TI	TPS6755ID	SOIC-8	Adjustable inverting DC/DC inverter	2.15	1.85	1.81
288163CM	ADI	AD7501KN	DIP-16	8-channel analog multiplexer	12.15	11.55	10.98
288180CM	ADI	AD7506JN	DIP-28	16-channel analog multiplexer	\$14.69	12.45	11.20 9.99
51140CM	+	75551PA	DIP-8	CMOS timer (LM555CN)	.33	.31	.29
51174CM	+	7660CPA	DIP-8	CMOS volt convtr (+5 to $\pm$ 5V) (M660AN)	.75	.68	.59
290301CM	+	ICL7660CPA	DIP-8	1.5V - 12V volt converter, 10kHz, supp	1.35	1.23	.92
290335CM	+	ICL7660SCPA	DIP-8	1.5V - 12V volt convtr, 10kHz freq boost	1.19	1.02	.92
316662CM	+	ICL7662CBA	SOIC-8	Volt converter, 20Vin, 4.5-20V out	2.99	2.79	2.65
316646CM	+	ICL7662CPA	DIP-8	Volt converter, 20Vin, 4.5-20V out	2.95	2.75	2.49
51879CM	+	8038CCPD	DIP-14	Precision wave form generator	4.95	4.49	3.95
316540CM	+	TC9400CPD	DIP-14	Volt freq/freq volt converter	5.75	5.34	5.07
316531CM	+	TC9400COD	SOIC-14	Volt freq/freq volt converter	6.35	6.03	5.73
25021CM	ON	MC14411P	DIP-24	Bit rate frequency generator	4.49	4.35	4.20
241841CM	+	MC14467	DIP-16	Smoke detector, ionization type	.95	.85	.77
25064CM	ON	MC14490P	DIP-16	Hex contact bounce eliminator	6.25	5.63	5.03
354597CM	+	MC14551N	DIP-16	Quad 2-ch analog multi/demultiplexer	1.20	.97	.73
354626CM	+	MC14557	DIP-16	1-64 bit variable length shift register	.73	.61	.45
241832CM	ON	MC145012	DIP-16	Smoke detector, photoelectric type	2.25	2.14	2.03
246713CM	ON	MC145151DW2	SOIC-28	Parallel input PLL freq synthesizer	5.19	5.05	4.83
118586CM	ON	MC145151P	DIP-28	Parallel input PLL freq synthesizer	6.15	5.20	4.10

+ Jameco Value Offering

## Pressure Sensors



Typical applications: air movement control, level indicators, leak detection, robotics and industrial controls

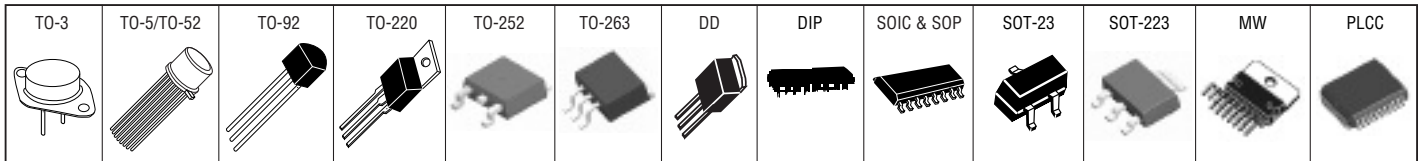
• To convert kPa to PSI: 1kPa = 0.1450377PSI

Part No.	Product No.	Type*	Case Type	Pressure (kPa)	Output	Op. Volt. (VDC@mA)	1	10	100
320899CM	MPX10DP	—	344C	0 - 10	35mV	3 @ 6	\$10.95	\$10.40	\$10.18
320987CM	MPX2010DP	D	344C	0 - 10	25mV	10 @ 6	14.85	14.07	13.37
321015CM	MPX2010GP	G	344B	0 - 10	25mV	10 @ 6	13.39	13.38	13.17
321293CM	MPX5050D	D	867	0 - 50	4.7V	5 @ 7	20.95	19.15	17.25



\* D = differential; G = gauge





Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.






























Manufacturer Cross Reference Table								Jameco Value Offering	
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI







 **Hall-Effect Sensors** SIP-3 

Part No.	Cross Ref.	Pkg.	Description	1	10	100
319089CM	ATS137M 	SIP-3	Hall-effect switch 25mA, 20V max, ext. temp	\$1.75	\$1.52	\$1.28
319100CM	AH182PL 	SIP-3	Hall-effect switch 25mA, low power	.83	.57	.44

**Temperature Sensors** Package (see above)

Part No.	Mfr.	Cross Ref.	Pkg.	Description	1	10	100
107094CM	NSC	LM34CZ 	TO-92	Prec temp sensor (-40° to +230°F)	\$4.89	\$4.52	\$4.08
193480CM	NSC	LM34DM 	SOIC-8	Prec temp sensor (-55° to 300°F)	1.75	1.32	.99
155192CM	NSC	LM34DZ 	TO-92	Prec temp sensor (+32° to +212°F)	1.99	1.67	1.23
302560CM	NSC	LM35CAZ 	TO-92	Precision C temperature sensor	5.19	4.14	3.55
193498CM	NSC	LM35DM 	SOIC-8	Prec temp sensor (-55° to 150°C)	1.65	1.25	.93
192217CM	NSC	LM35DT 	TO-220/3	Prec temp sensor (-55° to 150°C)	2.55	1.92	1.44
107107CM	NSC	LM35CZ 	TO-92	Prec temp sensor (-40° to 110°C)	4.39	3.37	2.52
155740CM	NSC	LM35DZ 	TO-92	Prec temp sensor (0° to +100°C)	1.79	1.35	1.25
278361CM	ADI	TMP36FS	SOIC-8	Low voltage temp sensor, ±2°C	\$1.11	.95	.80
278395CM	ADI	TMP36GS	SOIC-8	Low voltage temp sensor, ±3°C	\$0.97	.82	.60
278387CM	ADI	TMP36GT9	TO-92	Low voltage temp sensor	1.00	.92	.69
302164CM	NSC	LM50BIM3 	SOT-23	Single supply temp sensor, ±2°C	1.35	1.00	.75
302172CM	NSC	LM50CIM3 	SOT-23	Single supply temp sensor, ±3°C	.90	.66	.49
302148CM	NSC	LM56BIM 	SOIC-8	Dual output low-power thermo, dig-out	1.95	1.60	1.42
302092CM	+	LM61CIZ 	TO-92	2.7V analog temperature sensor	.74	.54	.46
301639CM	NSC	LM74CBP-3 	µSMD-5	12-bit + sign digital temp sensor	2.19	1.70	1.44
301604CM	NSC	LM74CBP-5 	µSMD-5	12-bit + sign digital temp sensor	1.59	1.52	1.45
301621CM	NSC	LM74CIM-3 	SOIC-8	12-bit + sign digital temp sensor	1.59	1.40	1.19
301583CM	NSC	LM74CIM-5 	SOIC-8	12-bit + sign digital temp sensor	1.59	1.40	1.19
311853CM	NSC	LM75CIM-3 	SOIC-8	Digital temp sensor/thermal watchdog	1.45	1.10	1.00
311845CM	NSC	LM75CIM-5 	SOIC-8	Digital temp sensor/thermal watchdog	1.65	1.32	1.17
301567CM	NSC	LM77CIM-3 	SOIC-8	9-bit + sign digital window comp	1.75	1.50	1.37
282028CM	+	LM135H 	TO-46	Precision temperature sensor	8.25	7.57	6.89
120820CM	+	LM335AZ 	TO-92	Precision temperature sensor	.81	.75	.71
193560CM	+	LM335M 	SOIC-8	Precision temperature sensor	1.09	.82	.60
23755CM	+	LM335Z 	TO-92	Volt mode temperature sensor	.67	.61	.44
241939CM	+	AD590JH	TO-52/3	Two terminal IC temp transducer	6.85	6.49	6.19
313306CM	+	AD594AQ 	DIP-14	Thermocouple amp for iron-constantan	12.99	11.69	10.53
313293CM	+	AD595AQ 	DIP-14	Thermocouple amp for chromel-alumel	13.55	11.89	10.52
302551CM	+	DS18S20 	SOIC-8	High-prec. 1-wire digital thermo	4.19	3.56	3.20
287371CM	+	AD7814ARM 	µSO-8	10-bit digital temp. sensor	1.99	1.90	1.82

















































**Digital Potentiometers** Package (see above)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
241744CM	MCP41010-I/P 	DIP-8	10kΩ, 256 steps, SPI digital pot	\$1.59	\$1.49	\$1.39
241761CM	MCP41050-I/P 	DIP-8	50kΩ, 256 steps, SPI digital pot	1.85	1.55	1.40
241787CM	MCP41100-I/P 	DIP-8	100kΩ, 256 steps, SPI digital pot	1.55	1.47	1.39
241752CM	MCP42010-I/P 	DIP-14	10kΩ, 256 steps, 2-ch, SPI digital pot	2.35	2.21	2.10
241779CM	MCP42050-I/P 	DIP-14	50kΩ, 256 steps, 2-ch, SPI digital pot	2.55	2.20	2.07
241795CM	MCP42100-I/P 	DIP-14	100kΩ, 256 steps, 2-ch, SPI digital pot	2.35	2.20	2.10

## Save Big! Special Values!

New Lower Prices = Orange      Sale Priced Items = Yellow  
 Exceptional Quantity Discounts = Green

**NPN Bipolar Transistors** \* Minimum order 10 pieces      Package (see above)

Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>CEO</sub>	Min. (h <sub>FE</sub> @ I <sub>C</sub> )	1	10	100	1000
214834CM	MMBTA05 	+	SOT-23	NPN	60	—	\$.02	\$.018	\$.017	
297799CM	MPSA05 	+	TO-92	NPN	60	100 @ .01A	.075	.064	.034	
214842CM	MMBTA06 	+	SOT-23	NPN	80	100 @ .01A	.05	.04	.03	
26462CM	MPSA06 	+	TO-92	NPN	30	50 @ .01A	.05	.028	.026	
288930CM	MPSH10 	+	TO-92	NPN	25	60 @ .004A	.09	.08	.06	
214851CM	MMBTA13 	+	SOT-23	NPN	30	5k @ .01A	.05	.03	.025	
26489CM	MPSA13 	+	TO-92	NPN	30	5k @ .01A	.066	.034	.028	
214869CM	MMBTA14 	+	SOT-23	NPN	30	10k @ .01A	.05	.03	.025	
210593CM	MPSA14 	+	TO-92	NPN	30	20k @ .10A	.083	.067	.038	
210681CM	MPSA18 	+	TO-92	NPN	45	500 @ .001A	.083	.066	.049	
288850CM	MPSA29 	+	TO-92	NPN	100	10k @ .1A	.06	.034	.025	
33021CM	TIP29A 	FSC	TO-220	NPN	60	15 @ 1A	.41	.39	.37	.30
297781CM	TIP29C 	+	TO-220	NPN	100	40 @ .2A	.25	.208	.195	.17
33048CM	TIP31A 	+	TO-220	NPN	60	10 @ 3A	.49	.39	.35	.29
179354CM	TIP31C 	FSC	TO-220	NPN	100	10 @ 3A	.49	.37	.30	.18
33081CM	TIP41A 	+	TO-220	NPN	60	15 @ 3A	.59	.55	.50	.42
179371CM	TIP41C 	FSC	TO-220	NPN	100	15 @ 3A	.34	.32	.27	.22
214885CM	MMBTA42	+	SOT-23	NPN	300	40 @ .01A	.031	.028	.026	
178546CM	MPSA42 	+	TO-92	NPN	30	40 @ .03A	.08	.075	.056	
288614CM	TIP47 	+	TO-220	NPN	250	30 @ .3A	.36	.31	.25	.18
288631CM	TIP48 	+	TO-220	NPN	300	30 @ .3A	.49	.42	.37	.278
120221CM	BPW77NA	+	TO-18	NPN	70	—	1.99	1.89	1.55	1.21
277413CM	PN100 	+	TO-92	NPN	45	100 @ .15A	.05	.042	.037	
288420CM	TIP100 	+	TO-220	NPN	60	1k @ 3A	.45	.41	.34	.25
297772CM	TIP101 	+	TO-220	NPN	80	1k @ 3A	.60	.54	.46	.34
32977CM	TIP102 	+	TO-220	NPN	100	1k @ 3A	.57	.49	.41	.245
179240CM	TIP102 	FSC	TO-220	NPN	100	1k @ 3A	.38	.32	.30	.29
288471CM	TIP110 	+	TO-220	NPN	60	1k @ 1A	.39	.36	.32	.27
288500CM	TIP111 	+	TO-220	NPN	80	1k @ 1A	.37	.34	.32	.27
288518CM	TIP112 	+	TO-220	NPN	100	1k @ 1A	.43	.37	.34	.24
32993CM	TIP120 	+	TO-220	NPN	60	1k @ 3A	.49	.45	.39	.27
179291CM	TIP120 	FSC	TO-220	NPN	60	1k @ 3A	.54	.47	.39	.29
288585CM	TIP121 	+	TO-220	NPN	80	1k @ .5A	.37	.32	.27	.23
120416CM	TIP122 	+	TO-220	NPN	100	1k @ 3A	.42	.37	.35	.26
179303CM	TIP122 	FSC	TO-220	NPN	100	1k @ 3A	.55	.42	.32	.195
254772CM	BD237 	+	TO-126	NPN	80	40 @ .15A	.44	.40	.32	.24
254810CM	BC337 	+	TO-92	NPN	45	100 @ .10A	.174	.114	.058	
211529CM	MJE340 	+	TO-225	NPN	300	30 @ .05A	.27	.24	.21	.155
255994CM	BU406 	+	TO-220	NPN	200	—	.89	.86	.67	.44
272031CM	BU407 	+	TO-220	NPN	150	—	.82	.73	.69	.52
254801CM	BC547B 	+	TO-92	NPN	45	330 @ .002A	.075	.067	.051	
254799CM	BC547C 	FSC	TO-92	NPN	45	600 @ .002A	.08	.075	.05	
254781CM	BC548B 	FSC	TO-92	NPN	30	110 @ .002A	.15	.086	.064	
309825CM	BD681 	+	TO-225	NPN	100	750 @ 2A	.49	.481	.285	.212
211553CM	MJE800 	+	TO-225	NPN	60	750 @ 1.5A	.29	.27	.24	.21
213920CM	MMBT918 	+	SOT-23	NPN	15	20 @ .003A	.04	.03	.02	
194327CM	2N2102 	+	TO-39	NPN	65	40 @ .15A	.424	.22	.20	.18
38228CM	2N2219A 	+	TO-39	NPN	40	100 @ .15A	.41	.37	.31	.28
94941CM	MMBT2222 	+	SOT-23	NPN	30	100 @ .15A	.06	.04	.03	
26446CM	MPQ2222	+	DIP-14	NPN	40	100 @ .15A	2.79	2.52	2.29	2.13
28628CM	PN2222 	+	TO-92	NPN	30	100 @ .15A	.065	.041	.025	

♦ Jameco Value Offering      FSC = Fairchild Semiconductor

\* 10 pcs./\*\* 100 pcs. in Transistor cabinet kit, pg 40

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

## NPN Bipolar Transistors (Continued)

Package (see pg 41)

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min. (h <sub>FE</sub> @ Ic)	1	10	100	1000
213938CM	MMBT2222A	+	SOT-23	NPN	40 100 @ .15A	*.04	\$.03	\$.022	
213997CM	MMPQ2222A	+	SOIC-16	NPN	40 100 @ .15A	.94	.81	.71	.53
210673CM	MPS2222A	+	TO-92	NPN	40 40 @ .50A	*.057	.041	.034	
178511CM	PN2222A	+	TO-92	NPN	40 100 @ .15A	*.13	.092	.051	
38236CM	2N2222A	+	TO-18	NPN	40 100 @ .15A	.39	.35	.29	.25
213946CM	MMBT2369A	+	SOT-23	NPN	15 40 @ .01A	*.021	.019	.018	
26526CM	MPS2369	+	TO-92	NPN	15 20 @ .10A	*.059	.038	.029	
38295CM	2N3053	+	TO-39	NPN	40 25 @ .15A	.47	.43	.40	.37
211385CM	TIP3055	+	TO-218	NPN	60 5 @ .001A	1.05	.94	.76	.57
38308CM	2N3055	+	TO-3	NPN	60 15 @ 10A	.95	.85	.72	.63
211406CM	2N3055A	+	TO-3	NPN	60 20 @ 4A	1.55	1.49	1.13	.98
25857CM	MJE3055T	+	TO-220	NPN	60 20 @ 4A	.53	.49	.45	.39
194415CM	2N3439	+	TO-39	NPN	350 40 @ .02A	.53	.50	.48	.36
209242CM	2N3771	+	TO-3	NPN	40 15 @ 15A	2.19	1.84	1.56	.99
38324CM	2N3772	+	TO-3	NPN	40 15 @ 10A	2.49	2.05	1.79	1.15
140151CM	2N3773	+	TO-3	NPN	140 15 @ 8A	2.45	2.32	2.26	1.69
94967CM	MMBT3904	+	SOT-23	NPN	40 100 @ .01A	*.042	.034	.025	
211351CM	MPS3904	+	TO-92	NPN	40 100 @ .001A	*.10	.06	.04	
38359CM	2N3904	+	TO-92	NPN	40 100 @ .01A	*.069	.057	.035	
178597CM	2N3904	FSC	TO-92	NPN	40 100 @ .01A	*.09	.06	.045	
38404CM	2N4123	+	TO-92	NPN	30 25 @ .05A	*.10	.09	.067	
214674CM	MMBT4124	+	SOT-23	NPN	25 60 @ .05A	*.024	.021	.019	
62295CM	2N4124	+	TO-92	NPN	25 60 @ .05A	*.04	.03	.02	
253411CM	2N4400	+	TO-92	NPN	40 50 @ .15A	*.042	.03	.022	
214703CM	MMBT4401	+	SOT-23	NPN	40 80 @ .01A	*.05	.038	.029	
38421CM	2N4401	+	TO-92	NPN	40 100 @ .15A	*.08	.06	.05	
211511CM	2N4410	+	TO-92	NPN	80 60 @ .01A	*.11	.08	.06	
211490CM	2N4923	+	TO-225	NPN	80 30 @ .50A	.45	.40	.32	.28
310666CM	2N5038	+	TO-3	NPN	150 20 @ 12A	6.89	5.93	4.51	3.89
213971CM	MMBT5088	+	SOT-23	NPN	30 300 @ .01A	*.03	.025	.023	
62316CM	2N5088	+	TO-92	NPN	30 300 @ .10A	*.05	.049	.037	
214746CM	MMBT5089	+	SOT-23	NPN	25 400 @ .01A	*.032	.029	.027	
62324CM	2N5089	+	TO-92	NPN	25 400 @ .10A	*.07	.048	.036	
140373CM	2N5179	+	TO-72	NPN	12 25 @ .003A	.59	.56	.512	.482
209251CM	2N5191	+	TO-225	NPN	60 25 @ 1.5A	.30	.28	.25	.23
253569CM	2N5550	+	TO-92	NPN	140 60 @ .010A	*.18	.16	.065	
214771CM	MMBT5551	+	SOT-23	NPN	140 80 @ .01A	*.024	.022	.02	
210657CM	2N5551	+	TO-92	NPN	160 80 @ .01A	*.05	.034	.026	
209277CM	2N5657	+	TO-126	NPN	350 30 @ .10A	.26	.24	.22	.20
254764CM	2N5886	+	TO-3	NPN	80 20 @ 10A	2.29	2.09	2.02	1.73
194589CM	2N6045	+	TO-220	NPN	100 1k @ 3A	\$.44	.37	.34	.29
194600CM	2N6059	+	TO-3	NPN	100 750 @ 6A	1.59	1.55	1.36	1.12
255011CM	2N6292	+	TO-220	NPN	70 30 @ 2A	.57	.52	.44	.33
213989CM	MMBT6427	+	SOT-23	NPN	40 10k @ .01A	*.03	.023	.021	
255003CM	2N6427	+	TO-92	NPN	40 10k @ .01A	.21	.19	.15	.044
288817CM	MPS6521	+	TO-92	NPN	25 300 @ 0.002A	*.13	.11	.07	
288833CM	MPS6531	+	TO-92	NPN	40 60 @ 0.01A	.21	.166	.076	.057
194618CM	2N6547	+	TO-3	NPN	400 12 @ 5A	3.25	2.93	2.66	2.42
194626CM	2N6678	+	TO-3	NPN	400 8 @ 15A	6.79	6.11	4.89	3.67
214025CM	MMPQ6700	+	SOIC-16	NPN/PNP40	70 @ .01A	\$.79	.55	.50	.45
140134CM	2N6725	+	TO-237	NPN	50 25k @ .20A	.35	.32	.28	.26
277771CM	MJE13005	+	TO-220	NPN	400 8 @ 2A	.90	.77	.61	.41

♦ Jameco Value Offering FSC = Fairchild Semiconductor Blue Part No. = Limited Quantity Available  
\*10 pcs. / \*\*100 pcs. in Transistor cabinet kit, right

## PNP Bipolar Transistors

Package (see pg 41)

* Minimum order 10 pieces									
Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min. (h <sub>FE</sub> @ Ic)	1	10	100	1000
33030CM	TIP30A	+	TO-220	PNP	60 15 @ 1A	\$.71	\$.56	\$.40	\$.247
179346CM	TIP30C	FSC	TO-220	PNP	100 15 @ 1A	\$.39	.36	.327	.29
33064CM	TIP32A	+	TO-220	PNP	60 10 @ 3A	.37	.335	.285	.23
181841CM	TIP32C	+	TO-220	PNP	100 10 @ 3A	.27	.24	.22	.165
33101CM	TIP42A	+	TO-220	PNP	60 15 @ 3A	\$.58	.42	.39	.36
139580CM	TIP42C	+	TO-220	PNP	100 15 @ 3A	.45	.407	.344	.247
179389CM	TIP42C	FSC	TO-220	PNP	100 15 @ 3A	.45	.41	.34	.25
214906CM	MMBT455	+	SOT-23	PNP	60 100 @ .01A	*.03	.027	.022	
214914CM	MMBT456	+	SOT-23	PNP	80 100 @ .01A	*.04	.036	.033	
210606CM	MPSA56	+	TO-92	PNP	80 100 @ .10A	*.06	.042	.025	
214922CM	MMBT463	+	SOT-23	PNP	30 5k @ .01A	*.028	.026	.023	
288921CM	MPSA63	+	TO-92	PNP	30 10k @ .1A	*.08	.058	.05	
214931CM	MMBT464	+	SOT-23	PNP	30 10k @ .01A	*.026	.024	.022	
178554CM	MPSA92	+	TO-92	PNP	300 25 @ .003A	*.11	.075	.049	
214957CM	MMBT492	+	SOT-23	PNP	300 40 @ .01A	*.033	.03	.028	
288462CM	TIP105	+	TO-220	PNP	60 1k @ 3A	.50	.45	.40	.30
32985CM	TIP106	+	TO-220	PNP	80 1k @ 3A	.80	.70	.65	.50
179258CM	TIP107	+	TO-220	PNP	100 1k @ 3A	.55	.49	.40	.287
288526CM	TIP115	+	TO-220	PNP	60 1k @ 1A	.38	.324	.262	.186
288542CM	TIP117	+	TO-220	PNP	100 1k @ 1A	.45	.35	.30	.22
33013CM	TIP125	+	TO-220	PNP	60 1k @ 3A	.49	.45	.29	.26
288606CM	TIP126	+	TO-220	PNP	80 1k @ .5A	.39	.32	.26	.19
179320CM	TIP127	FSC	TO-220	PNP	100 1k @ 3A	.45	.40	.32	.24
277886CM	MJE172	+	TO-225	PNP	80 30 @ .50A	.35	.322	.289	.179
277341CM	PN200	+	TO-92	PNP	45 100 @ .15A	*.07	.05	.04	
211537CM	MJE350	+	TO-225	PNP	300 30 @ .05A	.41	.37	.33	.29
256073CM	BD438	+	TO-225	PNP	45 30 @ .01A	\$.54	.43	.40	.35
256065CM	BD682	+	TO-225	PNP	100 750 @ 1.5A	.49	.43	.35	.23
211545CM	MJE700	+	TO-225	PNP	60 750 @ 1.5A	\$.31	.25	.22	.17
214658CM	MMBT2369	+	SOT-23	PNP	25 60 @ .05A	*.04	.03	.025	
194378CM	2N2905A	+	TO-39	PNP	60 100 @ .15A	.45	.43	.41	.31
94959CM	MMBT2907	+	SOT-23	PNP	40 100 @ .15A	.22	.068	.041	.026
26454CM	MMPQ2907	+	DIP-14	PNP	40 100 @ .15A	2.19	1.85	1.35	.99
28644CM	PN2907	+	TO-92	PNP	40 100 @ .15A	*.125	.09	.045	
213954CM	MMBT2907A	+	SOT-23	PNP	60 100 @ .01A	*.045	.038	.029	
214009CM	MMPQ2907A	+	SOIC-16	PNP	60 100 @ .01A	.35	.32	.29	.28
211342CM	MPS2907A	+	TO-92	PNP	60 100 @ .15A	*.057	.051	.038	
178520CM	PN2907A	+	TO-92	PNP	60 100 @ .15A	*.085	.077	.041	
38279CM	2N2907A	+	TO-18	PNP	60 100 @ .15A	.32	.30	.28	.23
211377CM	TIP2955	+	TO-218	PNP	60 5 @ .001A	\$.85	.75	.70	.60
211502CM	MJ2955	+	TO-3	PNP	60 20 @ 4A	.69	.57	.448	.39
25831CM	MJE2955T	+	TO-220	PNP	60 20 @ 4A	.58	.53	.445	.305
62287CM	2N3905	+	TO-92	PNP	40 50 @ .01A	*.10	.074	.04	
94975CM	MMBT3906	+	SOT-23	PNP	40 100 @ .01A	*.062	.037	.027	
214017CM	MMPQ3906	+	SOIC-16	PNP	40 75 @ .01A	1.37	.31	.28	
38375CM	2N3906	+	TO-92	PNP	40 100 @ .01A	*.05	.04	.03	
178618CM	2N3906	FSC	TO-92	PNP	40 100 @ .01A	*.08	.042	.029	
194466CM	2N4033	+	TO-39	PNP	80 100 @ .10A	.62	.56	.45	.41
214682CM	MMBT4126	+	SOT-23	PNP	25 60 @ .05A	*.019	.017	.016	
214623CM	2N4126	+	TO-92	PNP	25 60 @ .05A	*.05	.04	.034	

♦ Jameco Value Offering FSC = Fairchild Semiconductor Blue Part No. = Limited Quantity Available  
\*10 pcs. / \*\*100 pcs. in Transistor cabinet kit, below

## Transistor Assortment Cabinet Kit

Includes: 20 drawer component cabinet (319599CM),  
20 clear plastic drawers (319601CM),  
20 clear dividers (319610CM), pg 314 and  
30 adhesive labels for drawers to identify parts in kit

SAVE \$8



10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5951, 2N7000, MJE3055T, MPF102, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

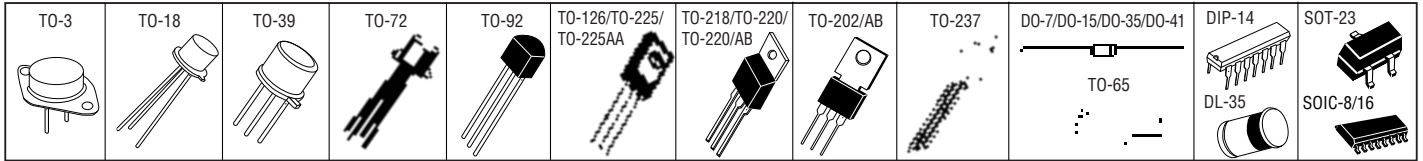
100 each: 2N3904, 2N3906, PN2222, PN2907

Part No.	Description	Wt. (lbs.)	1	10
82595CM	560 pcs. (20 types) NPN, PNP transistor kit	5.1	\$82.95	\$74.65
130374CM	Refill for 82595CM (560 pcs.)	0.4	69.95	62.95

Over 99% of Our Catalog  
Products Are In Stock

Place your order by 6PM EST  
for same business-day shipment.

Thousands of new ICs are in the pipeline for addition and not shown below. Call us to see if you can save 10-20%.

















## Manufacturer Cross Reference Table

Jameco Value Offering 

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
Analog Devices	ADI	Fairchild Semiconductor	FSC	Maxim Corporation	MAX	National Semiconductor	NSC	ST Micro	ST
Anachip	ANA	Linear Technology	LTC	Microchip	MCH	On Semi	ON	Texas Instruments	TI

## PNP Bipolar Transistors (Continued)

Package (see above)















Part No.	Product No.	Mfr.	Pkg.	Desc.	V <sub>ceo</sub> Min.	(h <sub>FE</sub> @ I <sub>C</sub> )	* Minimum order 10 pieces			
							1	10	100	1000
214720CM	MMBT4403 	+	SOT-23	PNP	40	60 @ .001A	.....	* .045	\$.04	\$.036
38447CM	2N4403 	+	TO-92	PNP	40	100 @ .15A	.....	* .05	.049	.036
277755CM	MJ4502 	+	TO-3	PNP	90	25 @ 7.5A	.....	2.45	2.30	2.25
211465CM	2N4920 	+	TO-225	PNP	80	30 @ .50A	.....	.33	.307	.294
213962CM	MMBT5087 	+	SOT-23	PNP	50	250 @ .01A	.....	* .02	.017	.016
210631CM	2N5087 	+	TO-92	PNP	50	250 @ .10A	.....	* .07	.032	.024
253930CM	2N5400 	+	TO-92	PNP	120	40 @ .010A	.....	* .09	.081	.07
214754CM	MMBT5401	+	SOT-23	PNP	150	40 @ .001A	.....	* .025	.022	.02
210649CM	2N5401 	+	TO-92	PNP	150	60 @ .01A	.....	* .066	.05	.037
253438CM	2N5884 	+	TO-3	PNP	80	4 @ 25A	.....	2.29	2.15	1.64
194571CM	2N6042 	+	TO-220	PNP	100	1k @ 3A	.....	.59	.47	.42
194597CM	2N6052 	+	TO-3	PNP	100	750 @ 6A	.....	1.75	1.69	1.64
214025CM	MMP06700 	+	SOIC-16	NPN/PNP	40	70 @ .01A	.....	.55	.50	.45
277798CM	MJE15029 	+	TO-220	PNP	120	40 @ 2A	.....	.72	.67	.56
277851CM	MJE15031 	+	TO-220	PNP	150	40 @ 2A	.....	.80	.73	.67

\* 10 pcs./100 pcs. in Transistor cabinet kit, pg 40

## J-FETs

**NEW**

Package (see above)

Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>GS</sub> @ I <sub>g</sub> (μA)	I <sub>oss</sub> (mA) @ V <sub>DS</sub>	* Minimum order 10 pieces			
							1	10	100	1000
26403CM	MPF102 	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.....	* .155	\$.11	\$.08
211393CM	J111 	+	TO-92	N-Ch	-40 @ -1	20 @ 15	.....	* .14	.12	.11
140450CM	J112	+	TO-92	N-Ch	-40 @ -1	5 @ 15	.....	* .09	.08	.073
210622CM	2N3819 	+	TO-92	N-Ch	-25 @ -1	2 @ 15	.....	* .085	.059	.055
253948CM	2N5457	+	TO-92	N-Ch	-25 @ -10	1 @ 15	.....	.20	.18	.126
253921CM	2N5458 	+	TO-92	N-Ch	-25 @ -10	2 @ 15	.....	.29	.23	.19
253884CM	2N5484 	+	TO-92	N-Ch	-25 @ -1	1 @ 15	.....	* .26	.18	.10
25385CM	2N5485 	+	TO-92	N-Ch	-25 @ -1	4 @ 15	.....	.24	.22	.17
253577CM	2N5486 	+	TO-92	N-Ch	-25 @ -1	8 @ 15	.....	* .23	.19	.14
253542CM	2N5639 	+	TO-92	N-Ch	-30 @ -10	25 @ 20	.....	.24	.22	.16
38527CM	2N5951 	+	TO-92	N-Ch	-30 @ -1	7 @ 15	.....	.69	.64	.44
140142CM	J176 	+	TO-92	P-Ch	30 @ 1	-2 @ -15	.....	.33	.29	.21
211414CM	J177 	+	TO-92	P-Ch	30 @ 1	-1.5 @ -15	.....	.43	.38	.29
253913CM	2N5460 	+	TO-92	P-Ch	40 @ 10	-1 @ -15	.....	.37	.33	.27
253905CM	2N5461 	+	TO-92	P-Ch	40 @ 10	-2 @ -15	.....	.32	.23	.20
253892CM	2N5462 	+	TO-92	P-Ch	40 @ 10	-4 @ -15	.....	* .089	.081	.073

◆ Jameco Value Offering \* 10 pcs. in Transistor cabinet kit, pg 40

## N-Channel and P-Channel MOSFETs













Package (see above)

Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	* Minimum order 10 pieces			
							1	10	100	1000
669821CM	IRFD014	+	DIP-4	N-Ch	60	1.7A	.....	\$.35	\$.33	\$.31
669839CM	IRFL014	+	SOT-223	N-Ch	60	2.7A	.....	.49	.41	.37
669847CM	IRLD014	+	DIP-4	N-Ch	60	1.7A	.....	.45	.36	.33
669855CM	IRLL014N	+	SOT-223	N-Ch	55	2.8A	.....	.55	.46	.33
669863CM	IRFBG20	+	TO-220AB	N-Ch	1000	1.4A	.....	1.17	.94	.84
669871CM	IRFZ24N	+	TO-220AB	N-Ch	55	17A	.....	.54	.43	.39



◆ Jameco Value Offering

## N-Channel and P-Channel MOSFETs

Package (see above)

Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	* Minimum order 10 pieces			
							1	10	100	1000
669880CM	IRLR024N	+	TO-252AA	N-Ch	55	17A	.....	\$.55	\$.50	\$.47
669898CM	IRLU024N	+	TO-251AA	N-Ch	55	17A	.....	.65	.53	.47
669901CM	IRLZ24N	+	TO-220AB	N-Ch	55	18A	.....	.53	.42	.37
669919CM	IRFBE30	+	TO-220AB	N-Ch	800	4.1A	.....	1.15	.90	.81
669927CM	IRFBG30	+	TO-220AB	N-Ch	1000	3.1A	.....	1.35	1.09	.96
669935CM	IRFZ34N	+	TO-220AB	N-Ch	55	26A	.....	.49	.39	.35
669943CM	IRLZ34N	+	TO-220AB	N-Ch	55	30A	.....	.57	.54	.50
669951CM	IRFZ44N	+	TO-220AB	N-Ch	55	49A	.....	.65	.51	.46
669960CM	IRFZ44NS	+	D2-Pack	N-Ch	55	49A	.....	1.05	.82	.58
669978CM	IRFZ46N	+	TO-220AB	N-Ch	55	53A	.....	.82	.78	.73
669986CM	IRFZ48N	+	TO-220AB	N-Ch	55	64A	.....	.82	.66	.59
669994CM	IRFD110	+	DIP-4	N-Ch	100	1.0A	.....	.47	.42	.35
670004CM	IRFL110	+	SOT-223	N-Ch	100	1.5A	.....	.45	.36	.32
670012CM	IRFD120	+	DIP-4	N-Ch	100	1.3A	.....	.66	.58	.52
670021CM	IRFR120N	+	TO-252AA	N-Ch	100	9.4A	.....	.45	.42	.39
670039CM	IRLD120	+	DIP-4	N-Ch	100	1.3A	.....	.45	.41	.38
670047CM	IRLR120N	+	TO-252AA	N-Ch	100	10A	.....	.69	.61	.51
256014CM	BSS138 	+	SOT-23	N-Ch	50	0.2A	.....	* .08	.06	.05
670055CM	IRFP150N	+	TO-247	N-Ch	100	42A	.....	1.35	.95	.79
256031CM	BS170 	+	TO-92	N-Ch	60	—	.....	* .10	.07	.06
670063CM	IRFL210	+	SOT-223	N-Ch	200	0.96A	.....	.39	.37	.32
670071CM	IRFR220N	+	TO-252AA	N-Ch	200	5A	.....	.45	.42	.39
670080CM	IRFP250	+	TO-247	N-Ch	200	30A	.....	1.49	1.39	1.25
670098CM	IRFP250N	+	TO-247	N-Ch	200	30A	.....	2.69	2.35	1.89
670101CM	IRFP260N	+	TO-247	N-Ch	200	50A	.....	2.69	2.15	1.95
670119CM	IRFR320	+	TO-252AA	N-Ch	400	3.1A	.....	.55	.49	.43
670127CM	IRFR420	+	TO-252AA	N-Ch	500	2.4A	.....	.69	.61	.43
670135CM	IRFP450	+	TO-247	N-Ch	500	14A	.....	2.05	1.65	1.49
670143CM	IRFP460	+	TO-247	N-Ch	500	20A	.....	2.59	2.39	2.29
209234CM	IRF510 	+	TO-220	N-Ch	100	5.6A	.....	.69	.59	.55
209226CM	IRF520 	+	TO-220	N-Ch	100	10.0A	.....	.85	.59	.52
209058CM	IRL520N 	+	TO-220	N-Ch	100	10.0A	.....	.56	.52	.46
210500CM	IRF530 	+	TO-220	N-Ch	100	14.0A	.....	.66	.57	.52
210515CM	IRF530N	+	TO-220AB	N-Ch	100	17A	.....	.59	.48	.37
670160CM	IRL530N	+	TO-220AB	N-Ch	100	17A	.....	.59	.47	.42
210518CM	IRF540 	+	TO-220	N-Ch	100	27.0A	.....	.78	.63	.57
670178CM	IRF540NS	+	D2-Pack	N-Ch	100	33A	.....	1.05	.90	.68
670186CM	IRF540N	+	TO-220	N-Ch	100	20A	.....	1.05	.80	.72
670194CM	IRL540N	+	TO-220AB	N-Ch	100	30A	.....	.89	.83	.78
670207CM	IRF610	+	TO-220AB	N-Ch	200	3.3A	.....	.49	.39	.35
210526CM	IRF620 	+	TO-220	N-Ch	200	6.0A	.....	.45	.42	.35
670215CM	IRF624	+	TO-220AB	N-Ch	250	4.0A	.....	.65	.49	.45
210534CM	IRF630 	+	TO-220	N-Ch	200	9.0A	.....	.61	.55	.49
210542CM	IRF640 	+	TO-220	N-Ch	200	18.0A	.....	.69	.65	.57
670223CM	IRF640NS	+	D2-Pack	N-Ch	200	18A	.....	1.19	.99	.88
670231CM	IRF644	+	TO-220AB	N-Ch	250	14A	.....	.82	.73	.61
670240CM	IRF720	+	TO-220AB	N-Ch	400	3.3A	.....	.56	.45	.41
210551CM	IRF730 	+	TO-220	N-Ch	400	5.5A	.....	.64	.62	.58
210569CM	IRF740 	+	TO-220	N-Ch	400	10.0A	.....	1.25	1.10	.89

◆ Jameco Value Offering

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## N-Channel & P-Channel MOSFETs (Cont.) Package (see pg 41)

\* Minimum order 10 pieces

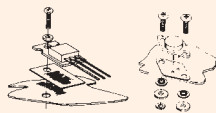
Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	1	10	100	1000
210577CM	IRF820	+	TO-220	N-Ch	500	4.0A ..... \$ .48	\$ .46	\$ .43	\$ .32	
210585CM	IRF830	+	TO-220	N-Ch	500	4.5A ..... .65	.62	.59	.44	
184719CM	IRF840	+	TO-220	N-Ch	500	8.0A ..... 1.28	1.05	.88	.50	
670258CM	IRF1010E	+	TO-220AB	N-Ch	60	84A ..... 1.55	1.40	1.26	1.15	
670266CM	IRF1010N	+	TO-220AB	N-Ch	55	85A ..... 1.19	1.14	1.09	.99	
670274CM	IRF1310N	+	TO-220AB	N-Ch	100	42A ..... 1.29	1.03	.93	.78	
670282CM	IRF1405	+	TO-220AB	N-Ch	55	169A ..... 3.19	2.86	2.39	1.85	
670291CM	IRL2203N	+	TO-220AB	N-Ch	30	116A ..... 1.45	1.39	1.29	1.15	
279460CM	VN2222LL	+	TO-92	N-Ch	60	.75A ..... .23	.20	.16	.14	
670303CM	IRLML2402	+	SOT-23	N-Ch	20	1.2A ..... .22	.17	.15	.13	
279486CM	VN2410L	+	TO-92	N-Ch	240	1.0A ..... .35	.30	.25	.22	
279478CM	VN2406L	+	TO-92	N-Ch	240	1.0A ..... .55	.44	.34	.21	
670311CM	IRLL2705	+	SOT-223	N-Ch	55	5.2A .... 1.09	1.03	.89	.83	
670320CM	IRLML2803	+	SOT-23	N-Ch	30	1.2A ..... *	.15	.14	.13	
670338CM	IRF2807	+	TO-220AB	N-Ch	75	82A ..... 1.95	1.75	1.55	1.43	
670346CM	IRL2910	+	TO-220AB	N-Ch	100	55A ..... 1.89	1.79	1.63	1.43	
618089CM	IRF3205	+	TO-220	N-Ch	55	110A ..... 2.39	1.75	1.45	1.26	
670354CM	IRF3415	+	TO-220AB	N-Ch	150	43A ..... 1.45	1.15	1.05	.89	
618071CM	IRL3705	+	TO-220	N-Ch	55	89A ..... 1.37	1.13	.90	.84	
670362CM	IRF3710	+	TO-220AB	N-Ch	100	57A ..... 1.29	1.05	.93	.85	
670371CM	IRFPS37N50A	+	Super-247	N-Ch	500	36A ..... 6.95	6.19	5.15	4.75	
670389CM	IRFL4310	+	SOT-223	N-Ch	100	2.2A ..... 1.29	1.05	.77	.72	
255020CM	SI4410DY	+	SOIC-8	N-Ch	30	20A ..... .97	.87	.65	.488	
255038CM	SI4420DY	+	SOIC-8	N-Ch	30	30A ..... 1.99	1.88	1.62	1.21	
255071CM	SI4884DY	+	SOIC-8	N-Ch	30	40A ..... .72	.64	.53	.43	
670725CM	IRF7201	+	SOIC-8	N-Ch	30	10A ..... .61	.58	.49	.41	
670397CM	IRF7401	+	SOIC-8	N-Ch	20	10A ..... .69	.62	.43	.41	
670400CM	IRF7413	+	SOIC-8	N-Ch	30	12A ..... 1.09	.79	.59	.52	
670418CM	IRF7455	+	SOIC-8	N-Ch	30	15A ..... .95	.86	.72	.67	
670426CM	IRF7811A	+	SOIC-8	N-Ch	28	11A ..... .85	.77	.64	.59	
670434CM	IRFD9120	+	DIP-4	N-Ch	100	1.4A ..... .61	.58	.57	.54	
178669CM	2N7000	+	FSC	TO-92	N-Ch	60	0.2A ..... .23	.13	.10	.095
119423CM	2N7000	+	TO-92	N-Ch	60	0.3A ..... *	.11	.10	.09	
140169CM	2N7002	+	SOT-23	N-Ch	60	0.5A ..... *	.08	.06	.045	
256057CM	BS250	+	TO-92	P-Ch	-45	— ..... .37	.34	.30	.20	
255046CM	SI4435DY	+	SOIC-8	P-Ch	-30	-40A ..... .79	.66	.48	.33	
255054CM	SI4463DY	+	SOIC-8	P-Ch	-20	-30A ..... 1.65	1.58	1.44	1.31	
255062CM	SI4467DY	+	SOIC-8	P-Ch	-12	-20A ..... 1.15	1.10	1.05	.99	
670442CM	IRF4905	+	TO-220AB	P-Ch	-55	-74A ..... 1.75	1.63	1.53	1.31	
670451CM	IRF4905S	+	D2-Pack	P-Ch	-55	-74A ..... 2.15	1.65	1.39	1.19	
670469CM	IRLML5103	+	SOT-23	P-Ch	-30	-0.76A ..... *	.16	.15	.14	
670477CM	IRF5210	+	TO-220AB	P-Ch	-100	-40A ..... 1.65	1.13	.95	.79	
670485CM	IRF5305	+	TO-220AB	P-Ch	-55	-31A ..... 1.15	1.01	.82	.69	
670493CM	IRFR5305	+	TO-252AA	P-Ch	-55	-31A ..... .79	.74	.70	.59	
670506CM	IRFR5410	+	TO-252AA	P-Ch	-100	-13A ..... .59	.50	.45	.37	
670514CM	IRLML6302	+	SOT-23	P-Ch	-20	-0.78A ..... .22	.17	.15	.13	
670522CM	IRLML6401	+	SOT-23	P-Ch	-12	-12A ..... .26	.21	.19	.16	
670531CM	IRF7404	+	SOIC-8	P-Ch	-20	-7.7A ..... .55	.49	.41	.38	
670549CM	IRF7416	+	SOIC-8	P-Ch	-30	-10A ..... 1.05	.73	.60	.57	
670557CM	IRFL9014	+	SOT-223	P-Ch	-60	-19A ..... .79	.51	.39	.33	
670565CM	IRFR9024	+	TO-252AA	P-Ch	-60	-8.8A ..... .72	.63	.57	.47	
670573CM	IRFR9024N	+	TO-252AA	P-Ch	-55	-11A ..... .63	.51	.45	.38	
670581CM	IRF9234N	+	TO-220AB	P-Ch	-55	-1.8A ..... .70	.66	.62	.52	
670590CM	IRFR9120	+	TO-252AA	P-Ch	-100	-5.6A ..... .65	.59	.52	.43	

◆ Jameco Value Offering FSC = Fairchild Semiconductor \* 10 pcs. in Transistor cabinet kit, pg 40

◆ Blue Part No. = Limited Quantity Available

## Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 kits per pack



Part No.	Type	Description	1	10	100
34121CM	TO-220	5 pcs per kit	\$3.95	\$3.55	\$3.19
34139CM	TO-3	12 pcs per kit	3.95	3.59	3.25

34121CM 34139CM

◆ RoHS compliant product ◆ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Heat Sinks

A Jameco  
EXCLUSIVE

Our TO-3 & TO-220 heat sinks are made from black anodized aluminum (except for P/N 107297CM which is light weight aluminum). They can be mounted horizontally or vertically depending on your applications. P/N 42622CM and 228005CM can be mounted vertically with solderable mounting tabs.



Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
326668CM	577500B00000	TO-126	—	\$.33	\$.295	\$.26	\$.25
326633CM	577304B00000	TO-202	0.52 x 0.38 x 0.75	.24	.23	.22	.207
326684CM	566010B03400	TO-218	1.00 x 0.51 x 1.22	.99	.89	.76	.57
326756CM	529801B02500	TO-218	1.64 x 0.98 x 1.51	1.02	.98	.83	.71
326772CM	530101B00150	TO-218	1.75 x 0.49 x 1.75	1.11	1.09	.94	.79
320320CM	BK-ALU-0034-001	TO-220	1.80 x 1.50 x 0.40	.30	.285	.279	.209
326596CM	507302B00000	TO-220	0.75 x 0.38 x 0.74	.25	.23	.20	.18
326609CM	577002B00000	TO-220	0.51 x 0.25 x 0.75	.30	.23	.215	.20
326617CM	577102B00000	TO-220	0.52 x 0.37 x 0.75	.33	.293	.264	.238
326625CM	531002B00000	TO-220	0.51 x 0.49 x 0.75	.27	.23	.215	.20
326641CM	577002B04000	TO-220	0.53 x 0.50 x 0.76	.30	.277	.255	.24
326650CM	577102B04000	TO-220	0.52 x 0.38 x 0.75	.27	.261	.249	.24
326676CM	593002B03400	TO-220	—	.52	.482	.416	.31
326692CM	531002B05200	TO-220	1.38 x 0.50 x 1.00	.84	.75	.65	.495
326713CM	531102B02500	TO-220	1.38 x 0.50 x 1.51	.86	.80	.68	.575
326721CM	531202B00000	TO-220	1.38 x 0.50 x 2.00	.76	.72	.70	.60
326748CM	531202B02500	TO-220	1.37 x 0.49 x 2.00	.89	.86	.74	.62
326764CM	531302B02500	TO-220	1.38 x 0.50 x 2.50	.92	.90	.77	.65

## Other Manufacturers — Great Deals



Part No.	Cross Ref. No.	Type	Size (L" x W" x H")	1	10	100	1000
16512CM	DUDE4	TO-3	4.80 x 1.50 x 1.30	\$2.95	\$2.75	\$2.49	\$2.25
151546CM	635-125B2	TO-3	1.90 x 1.40 x 1.30	1.05	.92	.78	.70
189835CM	635-5B2	TO-3	1.90 x 1.40 x 0.50	.87	.79	.70	.65
70914CM	THM6106	TO-220	1.20 x 1.00 x 0.50	.35	.30	.28	.26
129242CM	THM6106	TO-220	1.20 x 1.00 x 0.50	.49	.45	.39	.35
42622CM	563002B00000	TO-220	1.20 x 1.00 x 0.50	.35	.30	.28	.26
228005CM	BK-T220	TO-220	1.20 x 1.00 x 0.50	.35	.30	.23	.18
40504CM	291-H-36AB	TO-220	0.90 x 1.00 x 0.40	.63	.57	.45	.37
158051CM	577102B00000	TO-220	0.75 x 0.52 x 0.38	.39	.35	.28	.21
70658CM	THM6073	TO-220	0.80 x 0.70 x 0.40	.29	.269	.26	.25
107297CM	PSC2-U (cup-style)	TO-220	0.80 x 1.00 x 0.40	.49	.44	.35	.26

N-Channel & P-Channel MOSFETs (Cont.)

Package (see pg 41)

Part No.	Product No.	Mfr.	Pkg.	Desc.	BV <sub>DS</sub>	Min. On-St. DS Current	Package (see pg 41)			
							1	10	100	1000
670602CM	IRFR9120N	✦	TO-252AA	P-Ch	-100	-6.6A ...	<b>\$ .61</b>	<b>\$ .43</b>	<b>\$ .36</b>	<b>\$ .33</b>
670611CM	IRFR9220	✦	TO-252AA	P-Ch	-200	-3.6A ....	<b>1.19</b>	<b>1.09</b>	<b>.90</b>	<b>.86</b>
670629CM	IRF9520	✦	TO-220AB	P-Ch	-100	6A .....	<b>.99</b>	<b>.92</b>	<b>.86</b>	<b>.77</b>
670741CM	IRF9530	✦	TO-220AB	P-Ch	-100	-12A ....	<b>.68</b>	<b>.55</b>	<b>.49</b>	<b>.41</b>
670637CM	IRF9530N	✦	TO-220AB	P-Ch	-100	-14A ....	<b>.79</b>	<b>.62</b>	<b>.55</b>	<b>.46</b>
670645CM	IRF9540N	✦	TO-220AB	P-Ch	-100	-23A ...	<b>1.05</b>	<b>.85</b>	<b>.76</b>	<b>.63</b>
670653CM	IRF9640	✦	TO-220AB	P-Ch	-200	-11A ...	<b>1.09</b>	<b>.94</b>	<b>.85</b>	<b>.70</b>
670661CM	IRF7103	✦	SOIC-8	Dual N-Ch	50	3A .....	<b>.43</b>	<b>.39</b>	<b>.32</b>	<b>.29</b>
670670CM	IRF7303	✦	SOIC-8	Dual N-Ch	30	5.3A ....	<b>.75</b>	<b>.66</b>	<b>.47</b>	<b>.45</b>
670688CM	IRF7306	✦	SOIC-8	Dual P-Ch	-30	-4A .....	<b>.75</b>	<b>.60</b>	<b>.42</b>	<b>.40</b>
670696CM	IRF7313	✦	SOIC-8	Dual N-Ch	30	6.5A ....	<b>.85</b>	<b>.77</b>	<b>.64</b>	<b>.59</b>
255089CM	SI4963DY	✦	SOIC-8	Dual P-Ch	-20	-20A ...	<b>1.09</b>	<b>1.08</b>	<b>1.07</b>	<b>1.06</b>
670709CM	IRF7314	✦	SOIC-8	Dual P-Ch	-20	-5.3A ....	<b>.82</b>	<b>.58</b>	<b>.48</b>	<b>.45</b>
670733CM	IRF7105	✦	SOIC-8	Dual N/P Ch	25/-25	3.5/-2.3A ....	<b>.35</b>	<b>.32</b>	<b>.30</b>	<b>.28</b>
670717CM	IRF7309	✦	SOIC-8	Dual N/P Ch	30/-30	4.7/-3.5A ....	<b>.73</b>	<b>.65</b>	<b>.46</b>	<b>.43</b>

✦ Jameco Value Offering

Small Signal Diodes

Package (see pg 41)

Part No.	Product No.	Mfr.	Pkg.	Description	Minimum order 10 pieces			
					10	100	500	1000
655728CM	BAV20	✦	DO-35	200VRRM, 0.2A .....	<b>\$ .029</b>	<b>\$ .017</b>	<b>\$ .014</b>	<b>\$ .013</b>
655859CM	BAV21	✦	DO-35	250VRRM, 0.2A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655584CM	BAS29	✦	SOT-23	120VRRM, 0.2A .....	<b>.041</b>	<b>.025</b>	<b>.022</b>	<b>.019</b>
656122CM	BAS35	✦	SOT-23	120VRRM, 0.2A .....	<b>.057</b>	<b>.025</b>	<b>.023</b>	<b>.02</b>
655963CM	BAY71	✦	DO-35	50VRRM, 0.3A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655605CM	BAY72	✦	DO-35	125VRRM, 0.2A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655613CM	BAY73	✦	DO-35	125VRRM, 0.5A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
656173CM	BAW74	✦	SOT-23	50VRRM, 0.2A .....	<b>.057</b>	<b>.025</b>	<b>.023</b>	<b>.02</b>
656093CM	BAW76	✦	DO-35	85VRRM, 0.3A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655939CM	1N456A	✦	DO-35	30VRRM, 0.5A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.011</b>
655998CM	FDLL457A	✦	LL-34	70VRRM, 0.2A .....	<b>.034</b>	<b>.023</b>	<b>.02</b>	<b>.019</b>
655971CM	1N457	✦	DO-35	70VRRM, 0.2A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655980CM	1N457A	✦	DO-35	70VRRM, 0.2A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655630CM	1N458A	✦	DO-35	150VRRM, 0.5A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655779CM	1N459	✦	DO-35	200VRRM, 0.5A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655787CM	1N459A	✦	DO-35	200VRRM, 0.5A .....	<b>.031</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655841CM	1N486B	✦	DO-35	250VRRM, 0.2A .....	<b>.035</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655331CM	FDLL914	✦	LL-34	100VRRM, 0.2A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655349CM	FDLL914A	✦	LL-34	100VRRM, 0.2A .....	<b>.039</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655357CM	FDLL914B	✦	LL-34	100VRRM, 0.2A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655269CM	1N914A	✦	DO-35	100VRRM, 0.2A .....	<b>.025</b>	<b>.015</b>	<b>.013</b>	<b>.009</b>
655277CM	1N914B	✦	DO-35	100VRRM, 0.2A .....	<b>.039</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655285CM	1N916	✦	DO-35	100VRRM, 0.2A .....	<b>.025</b>	<b>.015</b>	<b>.013</b>	<b>.009</b>
655293CM	1N916A	✦	DO-35	100VRRM, 0.2A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.012</b>
655306CM	1N916B	✦	DO-35	100VRRM, 0.2A .....	<b>.025</b>	<b>.015</b>	<b>.013</b>	<b>.009</b>
656106CM	MMBD1205	✦	SOT-23	100VRRM, 0.2A .....	<b>.059</b>	<b>.025</b>	<b>.023</b>	<b>.02</b>
656131CM	MMBD1405	✦	SOT-23	200VRRM, 0.2A .....	<b>.049</b>	<b>.033</b>	<b>.029</b>	<b>.025</b>
656270CM	MMBD2838	✦	SOT-23	75VRRM, 0.2A .....	<b>.057</b>	<b>.025</b>	<b>.023</b>	<b>.019</b>
656018CM	1N3064	✦	DO-35	75VRRM, 0.3A .....	<b>.019</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655752CM	MMSD3070	✦	SOD-123	200VRRM, 0.2A .....	<b>.09</b>	<b>.042</b>	<b>.037</b>	<b>.032</b>
655761CM	1N3070	✦	DO-35	200VRRM, 0.5A .....	<b>.033</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655314CM	FDLL4148	✦	LL-34	100VRRM, 0.2A .....	<b>.029</b>	<b>.017</b>	<b>.014</b>	<b>.011</b>
656114CM	MMBD4148	✦	SOT-23	100VRRM, 0.2A .....	<b>.058</b>	<b>.025</b>	<b>.023</b>	<b>.019</b>
656202CM	MMBD4148CC	✦	SOT-23	100VRRM, 0.2A .....	<b>.058</b>	<b>.025</b>	<b>.023</b>	<b>.019</b>
656296CM	MMBD4148SE	✦	SOT-23	100VRRM, 0.2A .....	<b>.058</b>	<b>.025</b>	<b>.023</b>	<b>.019</b>

✦ Jameco Value Offering

Lowest Price Guarantee

Have you found a product at a lower  
print-advertised price? We'll beat that price  
by 10%, right down to our cost!

Small Signal Diodes (Continued)

Package (see pg 41)

Part No.	Product No.	Mfr.	Pkg.	Description	Minimum order 10 pieces			
					10	100	500	1000
655411CM	MMSD4148	✦	SOD-123	100VRRM, 0.6A .....	<b>\$ .059</b>	<b>\$ .037</b>	<b>\$ .03</b>	<b>\$ .023</b>
655390CM	1N4149	✦	DO-35	100VRRM, 0.3A .....	<b>.019</b>	<b>.013</b>	<b>.009</b>	<b>.008</b>
655955CM	1N4152	✦	DO-35	40VRRM, 0.2A .....	<b>.028</b>	<b>.017</b>	<b>.014</b>	<b>.011</b>
656026CM	1N4305	✦	DO-35	75VRRM, 0.3A .....	<b>.019</b>	<b>.013</b>	<b>.008</b>	<b>.007</b>
655322CM	FDLL4448	✦	LL-34	100VRRM, 0.2A .....	<b>.039</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>
655242CM	1N4448	✦	DO-35	100VRRM, 0.2A .....	<b>.019</b>	<b>.013</b>	<b>.008</b>	<b>.007</b>
655795CM	1N4938	✦	DO-35	200VRRM, 0.5A .....	<b>.035</b>	<b>.017</b>	<b>.014</b>	<b>.013</b>

Zener Diodes

Part No.	Product No.	Mfr.	Pkg.	V <sub>znom</sub>	Pwr Dissipation	Minimum order 10 pieces			
						10	100	500	1000
36290CM	1N751A	✦	DO-35	5.1V	0.5W .....	<b>\$ .06</b>	<b>\$ .052</b>	<b>\$ .045</b>	<b>\$ .022</b>
288665CM	MMSZ4697	✦	SOD-123	10V	0.5W .....	<b>.108</b>	<b>.059</b>	<b>.05</b>	<b>.045</b>
178765CM	1N4730A	✦	DO-41	3.9V	1W .....	<b>.05</b>	<b>.035</b>	<b>.025</b>	<b>.022</b>
178773CM	1N4732A	✦	DO-41	4.7V	1W .....	<b>.088</b>	<b>.069</b>	<b>.056</b>	<b>.044</b>
178781CM	1N4733A	✦	DO-41	5.1V	1W .....	<b>.09</b>	<b>.06</b>	<b>.05</b>	<b>.04</b>
36097CM	1N4733A	✦	DO-41	5.1V	1W .....	<b>.08</b>	<b>.065</b>	<b>.042</b>	<b>.026</b>
178790CM	1N4734A	✦	DO-41	5.6V	1W .....	<b>.038</b>	<b>.035</b>	<b>.032</b>	<b>.029</b>
36118CM	1N4734A	✦	DO-41	5.6V	1W .....	<b>.073</b>	<b>.055</b>	<b>.05</b>	<b>.045</b>
178802CM	1N4735A	✦	DO-41	6.2V	1W .....	<b>.049</b>	<b>.044</b>	<b>.04</b>	<b>.036</b>
36126CM	1N4735A	✦	DO-41	6.2V	1W .....	<b>.07</b>	<b>.045</b>	<b>.041</b>	<b>.035</b>
178811CM	1N4737A	✦	DO-41	7.5V	1W .....	<b>.04</b>	<b>.03</b>	<b>.024</b>	<b>.022</b>
178829CM	1N4738A	✦	DO-41	8.2V	1W .....	<b>.06</b>	<b>.035</b>	<b>.03</b>	<b>.025</b>
178837CM	1N4739A	✦	DO-41	9.1V	1W .....	<b>.057</b>	<b>.038</b>	<b>.032</b>	<b>.029</b>
178845CM	1N4740A	✦	DO-41	10V	1W .....	<b>.03</b>	<b>.027</b>	<b>.024</b>	<b>.022</b>
178853CM	1N4742A	✦	DO-41	12V	1W .....	<b>.03</b>	<b>.027</b>	<b>.025</b>	<b>.021</b>
36169CM	1N4742A	✦	DO-41	12V	1W .....	<b>.07</b>	<b>.055</b>	<b>.045</b>	<b>.032</b>
178861CM	1N4744A	✦	DO-41	15V	1W .....	<b>.03</b>	<b>.027</b>	<b>.025</b>	<b>.018</b>
36185CM	1N4744A	✦	DO-41	15V	1W .....	<b>.058</b>	<b>.035</b>	<b>.026</b>	<b>.021</b>
178888CM	1N4747A	✦	DO-41	20V	1W .....	<b>.023</b>	<b>.022</b>	<b>.018</b>	<b>.015</b>
178896CM	1N4748A	✦	DO-41	22V	1W .....	<b>.032</b>	<b>.029</b>	<b>.027</b>	<b>.024</b>
178909CM	1N4749A	✦	DO-41	24V	1W .....	<b>.042</b>	<b>.039</b>	<b>.035</b>	<b>.032</b>
183450CM	1N4750A	✦	DO-41	27V	1W .....	<b>.022</b>	<b>.02</b>	<b>.018</b>	<b>.016</b>
179004CM	1N5225B	✦	DO-35	3.0V	0.5W .....	<b>.041</b>	<b>.025</b>	<b>.015</b>	<b>.014</b>
288702CM	MMSZ5226B	✦	SOD-123	3.3V	0.5W .....	<b>.079</b>	<b>.067</b>	<b>.064</b>	<b>.045</b>
179021CM	1N5229B	✦	DO-35	4.3V	0.5W .....	<b>.023</b>	<b>.021</b>	<b>.019</b>	<b>.017</b>
179039CM	1N5230B	✦	DO-35	4.7V	0.5W .....	<b>.04</b>	<b>.032</b>	<b>.023</b>	<b>.02</b>
179047CM	1N5231B	✦	DO-35	5.1V	0.5W .....	<b>.04</b>	<b>.035</b>	<b>.03</b>	<b>.027</b>
179063CM	1N5234B	✦	DO-35	6.2V	0.5W .....	<b>.029</b>	<b>.026</b>	<b>.025</b>	<b>.024</b>
313390CM	MMBZ5241B	✦	SOT-23	11V	0.35W .....	<b>.115</b>	<b>.069</b>	<b>.059</b>	<b>.042</b>
179098CM	1N5242B	✦	DO-35	12V	0.5W .....	<b>.04</b>	<b>.036</b>	<b>.033</b>	<b>.03</b>
179135CM	1N5250B	✦	DO-35	20V	0.5W .....	<b>.023</b>	<b>.021</b>	<b>.019</b>	<b>.018</b>
288788CM	MMSZ5257	✦	SOD-123	33V	0.5W .....	<b>.116</b>	<b>.05</b>	<b>.044</b>	<b>.033</b>

✦ Jameco Value Offering    VSH = Vishay    Blue Part No. = Limited Quantity Available

\*10 pcs. in Diode/rectifier cabinet kit, pg 46

Diodes

Package (see pg 41)

Part No.	Product No.	Mfr.	Pkg.	Description	* Minimum order 10 pieces				
					1	10	100	1000	
140185CM	BAS16	✚	SOT-23	70PRV, 1A (Switching) .....	*	\$ .041	\$ .037	\$ .029	
655576CM	BAS19	✚	SOT-23	120VRM, 0.2A (Switching) .....	*	.041	.025	.022	
655592CM	BAV19	✚	DO-35	120BV, 0.2A (General purpose) *	*	.033	.017	.014	
655875CM	BAS21	✚	SOT-23	250BV, 0.6A (General purpose) *	*	.054	.025	.023	
656350CM	BAV23S	✚	SOT-23	250VRRM, 0.2A (General purpose) *	*	.075	.033	.029	
656317CM	BAS31	✚	SOT-23	120BV, 0.2A (General purpose) ..	*	.057	.025	.023	
254852CM	BAT54	✚	SOT-23	30PRV, 0.6A (Schottky) .....	*	.12	.09	.067	
254844CM	BAT54A	✚	SOT-23	30PRV, 0.6A (Schottky) .....	*	.05	.03	.027	
254836CM	BAT54C	✚	SOT-23	30PRV, 0.6A (Schottky) .....	*	.18	.13	.097	
254828CM	BAT54S	✚	SOT-23	30PRV, 0.6A (Schottky) .....	*	.21	.075	.05	.04
140177CM	BAW56	✚	SOT-23	70PRV, 0.25A (Switching) .....	*	.03	.027	.024	
656034CM	BAW62	✚	DO-35	75VRRM, 0.3A (Switching) .....	*	.033	.017	.014	
140206CM	BAV70	✚	SOT-23	70PRV, 0.25A (Switching) .....	*	.023	.021	.019	
656253CM	BAV74	✚	SOT-23	50BV, 0.2A (Ultrafast) .....	*	.059	.025	.023	



## Diodes (Continued)

Package (see pg 41)

Part No.	Product No.	Mfr.	Pkg.	Description	* Minimum order 10 pieces			
					1	10	100	1000
140193CM	BAV99	✦	SOT-23	70PRV, 1A (Switching) .....	* .03	.027	.024	
655808CM	BAV102	✦	LL-34	200BV, 0.5A (General purpose) *	.057	.025	.023	
655867CM	BAV103	✦	LL-34	250BV, 0.5A (General purpose) *	.057	.025	.023	
656341CM	FLLD261	✦	SOT-23	200BV, 0.6A (Low leakage) .....	* .049	.033	.029	
35941CM	1N270	✦	DO-7	80PRV (Germanium) .....	.99	.86	.74	.61
655648CM	FDH300	✦	DO-35	150BV, 0.5A (Low leakage) .....	* .041	.025	.023	
655656CM	FDH300A	✦	DO-35	150BV, 0.5A (Low leakage) .....	* .041	.025	.023	
655681CM	FDLL300	✦	LL-34	150BV, 0.5A (Low leakage) .....	* .041	.025	.023	
655699CM	FDLL300A	✦	LL-34	150BV, 0.5A (Low leakage) .....	* .034	.022	.02	
655664CM	FDH333	✦	DO-35	150BV, 0.5A (Low leakage) .....	* .041	.025	.023	
655701CM	FDLL333	✦	LL-34	150BV, 0.5A (Low leakage) .....	* .033	.022	.017	
655816CM	FDH400	✦	DO-35	200BV, 0.5A (General purpose) *	.041	.025	.023	
655824CM	FDLL400	✦	LL-34	200BV, 0.5A (General purpose) *	.049	.025	.023	
655832CM	FDLL485B	✦	LL-34	200BV, 0.5A (Low leakage) .....	* .049	.025	.023	
656069CM	FDH600	✦	DO-35	75BV, 0.4A (Ultrafast) .....	* .033	.017	.016	
655904CM	FDH700	✦	DO-35	30BV, 0.15A (Ultrafast) .....	* .041	.025	.023	
313402CM	MMBD914	✦	SOT-23	100 VRRM, 0.20A (Switching) *	.049	.047	.031	
655381CM	MMSD914	✦	SOD-123	100BV, 0.2A (Switching) .....	* .059	.037	.03	
179207CM	1N914	✦	DO-35	100PRV (Switching) .....	* .05	.025	.016	
36311CM	1N914	✦	DO-35	75PRV, 0.01A (Switching) .....	* .022	.018	.014	
655912CM	FJH1100	✦	DO-35	30BV, 0.15A (Ultra low leakage) 8.95	7.53	6.09	5.48	
3121201CM	MMB1100	✦	DO-41	100PRV, 1.0A (Schottky) .....	.26	.145	.096	.074
655921CM	FJH1102	✦	DO-35	30BV, 0.15A (Ultra low leakage) 7.75	6.18	5.82	5.24	
655365CM	MMBD1201	✦	SOT-23	100BV, 0.2A (Ultrafast) .....	* .049	.025	.022	
656288CM	MMBD1203	✦	SOT-23	100BV, 0.2A (Ultrafast) .....	* .039	.025	.023	
656190CM	MMBD1204	✦	SOT-23	100BV, 0.2A (Ultrafast) .....	* .039	.025	.023	
655736CM	MMBD1401	✦	SOT-23	200BV, 0.2A (General purpose) ..	* .049	.025	.022	
655883CM	MMBD1401A	✦	SOT-23	250BV, 0.6A (General purpose) ..	* .041	.025	.023	
656325CM	MMBD1403	✦	SOT-23	200BV, 0.2A (General purpose) ..	* .049	.025	.023	
656368CM	MMBD1403A	✦	SOT-23	250BV, 0.6A (General purpose) ..	* .049	.033	.029	
656211CM	MMBD1404	✦	SOT-23	200BV, 0.2A (General purpose) ..	* .049	.025	.023	
656237CM	MMBD1404A	✦	SOT-23	250BV, 0.6A (General purpose) ..	* .057	.033	.029	
656157CM	MMBD1405A	✦	SOT-23	250BV, 0.6A (General purpose) ..	* .057	.033	.029	
655744CM	MMBD1501A	✦	SOT-23	200BV, 0.2A (Low leakage) .....	* .041	.025	.023	
656333CM	MMBD1503A	✦	SOT-23	200BV, 0.2A (Low leakage) .....	* .075	.033	.029	
656229CM	MMBD1504A	✦	SOT-23	200BV, 0.2A (Low leakage) .....	* .057	.033	.029	
656149CM	MMBD1505A	✦	SOT-23	200BV, 0.2A (Low leakage) .....	* .057	.033	.029	
655891CM	MMBD1701	✦	SOT-23	30BV, 0.05A (Low leakage) .....	* .041	.025	.022	
656376CM	MMBD1703	✦	SOT-23	30BV, 0.05A (Low leakage) .....	* .059	.025	.023	
656245CM	MMBD1704A	✦	SOT-23	30BV, 0.05A (Low leakage) .....	* .049	.025	.023	
656165CM	MMBD1705	✦	SOT-23	30BV, 0.05A (Low leakage) .....	* .049	.025	.023	
655672CM	FDH3595	✦	DO-35	150BV, 0.5A (Low leakage) .....	* .058	.033	.025	
655710CM	FDLL3595	✦	LL-34	150BV, 0.5A (Low leakage) .....	* .041	.025	.023	
35967CM	1N3600	✦	DO-35	50PRV, 0.2A (Switching) .....	* .04	.029	.017	
179215CM	1N4148	✦	DO-35	100PRV (Switching) .....	* .04	.03	.025	
36038CM	1N4148	✦	DO-35	75PRV, 0.01A (Switching) .....	* .036	.027	.02	
151247CM	1N4148T	✦	DO-35	75PRV, 0.01A (Switching) .....	#	#	#	.009
94908CM	LL4148	✦	DL-35	75PRV @ 50A, 10mA .....	†	†	.021	.014
656077CM	FDLL4150	✦	LL-34	75BV, 0.4A (Ultrafast) .....	* .041	.025	.023	
656042CM	1N4150	✦	DO-35	75BV, 0.4A (Ultrafast) .....	* .033	.017	.014	
656000CM	1N4151	✦	DO-35	75VRRM, 0.15A (Switching) ....	* .033	.017	.014	
655947CM	1N4154	✦	DO-35	35BV, 0.3A (Switching) .....	* .019	.014	.008	
313411CM	MMBD4148	✦	SOT-23	100VRRM, 0.20A (Gen. Purp.) *	.048	.037	.029	
655402CM	MMBD4448	✦	SOT-23	100BV, 0.6A (Switching) .....	* .049	.025	.022	
656051CM	1N4454	✦	DO-35	75BV, 0.4A (Ultrafast) .....	* .029	.017	.014	
656309CM	MMBD7000	✦	SOT-23	100BV, 0.2A (Ultrafast) .....	* .049	.025	.023	

✦ Jameco Value Offering

VSH = Vishay

† Prepackaged: order in increments of 100

\* 10 pcs./\*\* 100 pcs. in Diode/Rectifier cabinet kit, pg 46

# Taped-ammo style: order in increments of 1000

## Transient Voltage Suppressors

Part No.	Product No.	Watts	Pkg.	Min. Brkdw Volt. (V <sub>BR</sub> )	Stand-Off Voltage	* Minimum order 10 pieces			
						1	10	100	1000
254879CM	SA6.0A	500	DO-15	6.67	6.0	.62	.24	.22	.16
256701CM	SA12A	500	DO-15	13.3	12.0	.13	.12	.11	
254991CM	SA12CA	500	DO-15	13.3	12.0	.22	.20	.16	.12

RoHS compliant product

✦ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## Transient Voltage Suppressors

DO-15/41

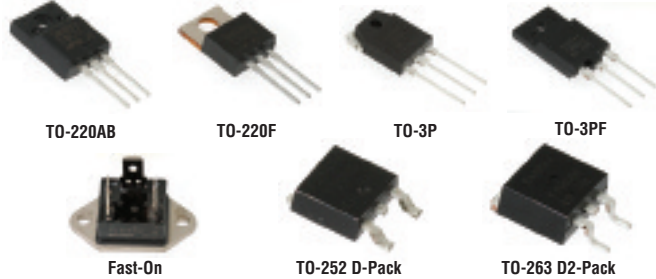
DO-214AB

Part No.	Product No.	Watts	Pkg.	Min. Brkdw Volt. (V <sub>BR</sub> )	Stand-Off Voltage	* Minimum order 10 pieces			
						1	10	100	1000
254983CM	SA13A	500	DO-15	14.4	13.0	.14	.12	.12	.09
254975CM	SA15A	500	DO-15	16.7	15.0	.26	.23	.19	.14
254967CM	SA20A	500	DO-15	22.2	20.0	.20	.18	.14	.105
254916CM	SA24A	500	DO-15	26.7	24.0	.25	.22	.20	.17
254908CM	SA28A	500	DO-15	31.1	28.0	.31	.28	.24	.16
254895CM	SA30A	500	DO-15	33.3	30.0	.31	.28	.22	.165
254887CM	SA30CA	500	DO-15	33.3	30.0	.32	.29	.24	.18
256663CM	P6KE6.8A	600	DO-15	6.45	5.8	.14	.13	.096	
256647CM	P6KE7.5A	600	DO-15	7.13	6.4	.19	.16	.12	
256639CM	P6KE9.1A	600	DO-15	8.65	7.8	.23	.22	.20	.18
288999CM	P6KE10A	600	DO-15	9.5	8.55	.30	.28	.23	.17
288981CM	P6KE10CA	600	DO-15	9.5	8.55	.25	.20	.15	
289035CM	P6KE12A	600	DO-15	11.4	10.2	.22	.19	.17	.15
289043CM	P6KE12CA	600	DO-15	11.4	10.2	.23	.21	.157	
255943CM	P6KE16A	600	DO-15	15.2	13.6	.16	.13	.097	
255919CM	P6KE18A	600	DO-15	17.1	15.3	.22	.19	.17	.16
255901CM	P6KE18CA	600	DO-15	17.1	15.3	.23	.22	.20	.136
255863CM	P6KE20A	600	DO-15	19.0	17.1	.12	.11	.083	
272102CM	P6KE22A	600	DO-15	20.9	18.8	.125	.109	.103	
255855CM	P6KE24A	600	DO-15	22.8	20.5	.23	.22	.20	.135
255847CM	P6KE24CA	600	DO-15	22.8	20.5	.17	.15	.12	
255821CM	P6KE27A	600	DO-15	25.7	23.1	.31	.28	.22	.20
255812CM	P6KE27CA	600	DO-15	25.7	23.1	.24	.21	.19	.14
255804CM	P6KE30A	600	DO-15	28.5	25.6	.27	.25	.21	.14
255791CM	P6KE30CA	600	DO-15	28.5	25.6	.28	.25	.20	.18
255783CM	P6KE33A	600	DO-15	31.4	28.2	.25	.22	.18	.135
255775CM	P6KE33CA	600	DO-15	31.4	28.2	.25	.22	.18	.135
255767CM	P6KE36A	600	DO-15	34.2	30.8	.24	.21	.19	.14
255759CM	P6KE39A	600	DO-15	37.1	33.3	.20	.17	.14	.10
255741CM	P6KE39CA	600	DO-15	37.1	33.3	.17	.16	.12	
256698CM	P6KE47A	600	DO-15	44.7	40.2	.21	.19	.17	.11
256680CM	P6KE47CA	600	DO-15	44.7	40.2	.17	.16	.12	
256671CM	P6KE51A	600	DO-15	48.5	43.6	.22	.19	.17	.13
256655CM	P6KE68A	600	DO-15	64.6	58.1	.26	.23	.19	.14
256621CM	P6KE91A	600	DO-15	86.5	77.8	.22	.20	.16	.14
288956CM	P6KE100A	600	DO-15	95	85.5	.17	.13	.124	
316849CM	P6KE100CA	600	DO-15	95	85.5	.30	.28	.25	.18
255951CM	P6KE150CA	600	DO-15	143.0	128.0	.21	.16	.14	.10
255927CM	P6KE180A	600	DO-15	171.0	154.0	.21	.14	.13	.097
255871CM	P6KE200A	600	DO-15	190.0	171.0	.38	.34	.27	.203
255839CM	P6KE250CA	600	DO-15	237.0	214.0	.23	.20	.16	.12
313146CM	SMCJ5.0A	1500	DO-214AB	6.4	5	.61	.54	.46	.31
313120CM	SMCJ5.0CA	1500	DO-214AB	6.4	5	.61	.506	.495	.37
313103CM	SMCJ6.0A	1500	DO-214AB	6.67	6	.62	.48	.46	.45
313218CM	SMCJ10A	1500	DO-214AB	11.1	10	.41	.39	.35	.25
313234CM	SMCJ10CA	1500	DO-214AB	11.1	10	.61	.51	.465	.348
313200CM	SMCJ20A	1500	DO-214AB	22.2	20	.50	.44	.38	.26
313197CM	SMCJ20CA	1500	DO-214AB	22.2	20	.37	.31	.28	.26
313171CM	SMCJ24A	1500	DO-214AB	26.7	24	.50	.44	.38	.26
313189CM	SMCJ24CA	1500	DO-214AB	26.7	24	.63	.56	.49	.33
313162CM	SMCJ36A	1500	DO-214AB	40	36	.45	.365	.302	.226
313154CM	SMCJ36CA	1500	DO-214AB	40	36	.63	.60	.48	.33
313082CM	SMCJ58CA	1500	DO-214AB	64.4	58	.66	.60	.47	.41
618118CM	1N5908	1500	DO-41	6.0	—	.57	.51	.298	.268

## Troubleshooting &amp; Repairing Consumer Electronics without a Schematic

**TAB Publishing** Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages, 1997) • Size: 7.4" x 9.3" • Wt.: 1.1 lbs.

Part No.	Description	Price
136080CM	Troubleshooting & Repairing .....	\$24.95



SanRex® Through Hole - Standard Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657037CM	TMG5C60	TO-220AB	Non-isolated 5A, 600V ..... <b>\$1.30</b>	<b>\$1.13</b>	<b>\$ .88</b>	
657045CM	TMG5C80	TO-220AB	Non-isolated 5A, 800V ..... <b>1.39</b>	<b>1.27</b>	<b>1.13</b>	
657053CM	TMG8C60	TO-220AB	Non-isolated 8A, 600V ..... <b>.79</b>	<b>.74</b>	<b>.69</b>	
657061CM	TMG8C80	TO-220AB	Non-isolated 8A, 800V ..... <b>1.49</b>	<b>1.38</b>	<b>1.23</b>	
657070CM	TMG10C60	TO-220AB	Non-isolated 10A, 600V ..... <b>1.44</b>	<b>1.29</b>	<b>1.17</b>	
657088CM	TMG10C80	TO-220AB	Non-isolated 10A, 800V ..... <b>.67</b>	<b>.63</b>	<b>.58</b>	
657096CM	TMG12C60	TO-220AB	Non-isolated 12A, 600V ..... <b>.90</b>	<b>.84</b>	<b>.77</b>	
657109CM	TMG12C80	TO-220AB	Non-isolated 12A, 800V ..... <b>1.00</b>	<b>.93</b>	<b>.86</b>	
657117CM	TMG16C60	TO-220AB	Non-isolated 16A, 600V ..... <b>1.02</b>	<b>.95</b>	<b>.87</b>	
657125CM	TMG16C80	TO-220AB	Non-isolated 16A, 800V ..... <b>1.02</b>	<b>.95</b>	<b>.87</b>	
657133CM	TMG20C60	TO-220AB	Non-isolated 20A, 600V ..... <b>1.29</b>	<b>1.19</b>	<b>1.09</b>	
657150CM	TMG3C60F	TO-220F	Isolated 3A, 600V ..... <b>.97</b>	<b>.86</b>	<b>.78</b>	
657176CM	TMG5C60F	TO-220F	Isolated 5A, 600V ..... <b>.85</b>	<b>.80</b>	<b>.74</b>	
657184CM	TMG5C80F	TO-220F	Isolated 5A, 800V ..... <b>1.49</b>	<b>1.37</b>	<b>1.23</b>	
657192CM	TMG8C60F	TO-220F	Isolated 8A, 600V ..... <b>.81</b>	<b>.76</b>	<b>.71</b>	
657205CM	TMG8C80F	TO-220F	Isolated 8A, 800V ..... <b>1.65</b>	<b>1.49</b>	<b>1.34</b>	
657213CM	TMG10C60F	TO-220F	Isolated 10A, 600V ..... <b>1.55</b>	<b>1.40</b>	<b>1.27</b>	
657221CM	TMG10C80F	TO-220F	Isolated 10A, 800V ..... <b>.90</b>	<b>.84</b>	<b>.78</b>	
657256CM	TMG16C60F	TO-220F	Isolated 16A, 600V ..... <b>1.43</b>	<b>1.25</b>	<b>.97</b>	
657264CM	TMG16C80F	TO-220F	Isolated 16A, 800V ..... <b>.98</b>	<b>.92</b>	<b>.85</b>	
657272CM	TMG20C60F	TO-220F	Isolated 20A, 600V ..... <b>1.42</b>	<b>1.32</b>	<b>1.24</b>	
657310CM	TMG16C60L	TO-3P	Non-isolated 16A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657328CM	TMG16C80L	TO-3P	Non-isolated 16A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657336CM	TMG25C60L	TO-3P	Non-isolated 25A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657344CM	TMG25C80L	TO-3P	Non-isolated 25A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657352CM	TMG16C60J	TO-3PF	Isolated 16A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657361CM	TMG16C80J	TO-3PF	Isolated 16A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657379CM	TMG25C60J	TO-3PF	Isolated 25A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657387CM	TMG25C80J	TO-3PF	Isolated 25A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	

SanRex® Through Hole - Sensitive Gate Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657395CM	TMG5D60	TO-220AB	Non-isolated 5A, 600V ..... <b>\$ .70</b>	<b>\$ .65</b>	<b>\$ .61</b>	
657424CM	TMG8D80	TO-220AB	Non-isolated 8A, 800V ..... <b>1.31</b>	<b>1.15</b>	<b>.89</b>	
657432CM	TMG10D60	TO-220AB	Non-isolated 10A, 600V ..... <b>.81</b>	<b>.74</b>	<b>.67</b>	
657459CM	TMG12D60	TO-220AB	Non-isolated 12A, 600V ..... <b>1.59</b>	<b>1.40</b>	<b>1.09</b>	
657483CM	TMG16D80	TO-220AB	Non-isolated 16A, 800V ..... <b>1.02</b>	<b>.95</b>	<b>.87</b>	
657491CM	TMG20D60	TO-220AB2	Non-isolated 20A, 600V ..... <b>1.42</b>	<b>1.32</b>	<b>1.24</b>	
657539CM	TMG3D60F	TO-220F	Isolated 3A, 600V ..... <b>1.27</b>	<b>1.16</b>	<b>1.04</b>	
657555CM	TMG5D60F	TO-220F	Isolated 5A, 600V ..... <b>1.45</b>	<b>1.29</b>	<b>1.00</b>	
657571CM	TMG8D60F	TO-220F	Isolated 8A, 600V ..... <b>.83</b>	<b>.76</b>	<b>.70</b>	
657598CM	TMG10D60F	TO-220F	Isolated 10A, 600V ..... <b>1.44</b>	<b>1.29</b>	<b>1.17</b>	
657619CM	TMG12D60F	TO-220F	Isolated 12A, 600V ..... <b>.82</b>	<b>.75</b>	<b>.68</b>	
657635CM	TMG16D60F	TO-220F	Isolated 16A, 600V ..... <b>.98</b>	<b>.90</b>	<b>.80</b>	
657643CM	TMG16D80F	TO-220F	Isolated 16A, 800V ..... <b>.98</b>	<b>.92</b>	<b>.86</b>	
657651CM	TMG20D60F	TO-220F	Isolated 20A, 600V ..... <b>1.42</b>	<b>1.32</b>	<b>1.24</b>	
657694CM	TMG16D60L	TO-3P	Non-isolated 16A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657707CM	TMG16D80L	TO-3P	Non-isolated 16A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657715CM	TMG25D60L	TO-3P	Non-isolated 25A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657723CM	TMG25D80L	TO-3P	Non-isolated 25A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657731CM	TMG16D60J	TO-3PF	Isolated 16A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657740CM	TMG16D80J	TO-3PF	Isolated 16A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	
657758CM	TMG25D60J	TO-3PF	Isolated 25A, 600V ..... <b>4.05</b>	<b>3.58</b>	<b>3.31</b>	
657766CM	TMG25D80J	TO-3PF	Isolated 25A, 800V ..... <b>3.25</b>	<b>2.85</b>	<b>2.45</b>	

\* For cross references to Littlefuse, ST, and ON-Semi products, refer to datasheets.

RoHS compliant product   This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.   [Details on page 1.](#)

Color Code Legend
New   Sale   Lower\$   QtySave

SanRex® Surface Mount Device - Standard Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657774CM	TMG3C60D	TO-252 D-Pack	Non-isolated 3A, 600V ..... <b>\$1.13</b>	<b>\$ .99</b>	<b>\$ .76</b>	
657791CM	TMG5C60D	TO-252 D-Pack	Non-isolated 5A, 600V ..... <b>1.13</b>	<b>.99</b>	<b>.76</b>	
657838CM	TMG8C60H	TO-263 D2-Pack	Non-isolated 8A, 600V ..... <b>1.47</b>	<b>1.24</b>	<b>1.04</b>	
657871CM	TMG12C60H	TO-263 D2-Pack	Non-isolated 12A, 600V ..... <b>.71</b>	<b>.65</b>	<b>.59</b>	
657897CM	TMG16C60H	TO-263 D2-Pack	Non-isolated 16A, 600V ..... <b>1.42</b>	<b>1.32</b>	<b>1.24</b>	

SanRex® Surface Mount Device - Sensitive Gate Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
657918CM	TMG2D60D	TO-252 D-Pack	Non-isolated 2A, 600V ..... <b>\$1.16</b>	<b>\$1.02</b>	<b>\$ .77</b>	
657926CM	TMG2D80D	TO-252 D-Pack	Non-isolated 2A, 800V ..... <b>.96</b>	<b>.80</b>	<b>.64</b>	
657934CM	TMG3D60D	TO-252 D-Pack	Non-isolated 3A, 600V ..... <b>1.16</b>	<b>1.02</b>	<b>.77</b>	
658056CM	TMG16D60H	TO-263 D2-Pack	Non-isolated 16A, 600V ..... <b>1.42</b>	<b>1.32</b>	<b>1.24</b>	

SanRex® Surface Mount Device - T<sub>J</sub> = 150° Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
664616CM	TMG2CQ60D	TO-252 D-Pack	Non-isolated 3A, 600V ..... <b>\$1.16</b>	<b>\$1.02</b>	<b>\$ .77</b>	
658072CM	TMG2DQ60D	TO-252 D-Pack	Non-isolated 2A, 600V ..... <b>1.16</b>	<b>1.02</b>	<b>.77</b>	
658081CM	TMG3CQ60D	TO-252 D-Pack	Non-isolated 3A, 600V ..... <b>1.16</b>	<b>1.02</b>	<b>.77</b>	
658099CM	TMG3DQ80D	TO-252 D-Pack	Non-isolated 3A, 800V ..... <b>1.16</b>	<b>1.02</b>	<b>.77</b>	
658128CM	TMG8CQ60H	TO-263 D2-Pack	Non-isolated 8A, 600V ..... <b>1.47</b>	<b>1.24</b>	<b>1.04</b>	

SanRex® Fast-On Package Triacs

Part No.	Product No. *	Pkg.	Rating (X <sub>DRM</sub> , I <sub>T(RMS)</sub> )	1	10	100
658187CM	TG25E40	Fast-On	Isolated 25A, 400V ..... <b>\$5.99</b>	<b>\$5.29</b>	<b>\$4.89</b>	
658195CM	TG25E60	Fast-On	Isolated 25A, 600V ..... <b>5.99</b>	<b>5.29</b>	<b>4.89</b>	
658208CM	TG35E40	Fast-On	Isolated 35A, 400V ..... <b>7.29</b>	<b>6.44</b>	<b>5.95</b>	
658216CM	TG35E60	Fast-On	Isolated 35A, 600V ..... <b>7.29</b>	<b>6.44</b>	<b>5.95</b>	
658241CM	TG25F40	Fast-On	Isolated 25A, 400V ..... <b>5.99</b>	<b>5.29</b>	<b>4.89</b>	
658259CM	TG25F60	Fast-On	Isolated 25A, 600V ..... <b>5.99</b>	<b>5.29</b>	<b>4.89</b>	
658267CM	TG35F40	Fast-On	Isolated 35A, 400V ..... <b>7.29</b>	<b>6.44</b>	<b>5.95</b>	
658275CM	TG35F60	Fast-On	Isolated 35A, 600V ..... <b>7.29</b>	<b>6.44</b>	<b>5.95</b>	

\* For cross references to Littlefuse, ST, and ON-Semi products, refer to datasheets.

Diacs/Triacs/Quadracs

Package (see pg 44)

\* Minimum order 10 pieces

Part No.	Product No.	Mfr.	Pkg.	Type	Rating	1	10	100
160098CM	HT-32	TEC	DO-35	Diac	27.37 V <sub>BO</sub> , 2A ..... *	<b>\$ .13</b>	<b>\$ .12</b>	
31819CM	SC146B	♦	TO-220	Triac	200 V <sub>DRM</sub> , 10A (2N6342) ...	<b>1.29</b>	<b>1.15</b>	<b>.99</b>
31827CM	SC146M	♦	TO-220	Triac	600 V <sub>DRM</sub> , 10A (2N6344) ...	<b>1.99</b>	<b>1.69</b>	<b>1.49</b>
160178CM	L401E3	TEC	TO-92	Triac	400 V <sub>DRM</sub> , 1A	<b>.63</b>	<b>.56</b>	<b>.51</b>
220468CM	L4004F31	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 4A	<del>\$0.73</del> <b>.69</b>	<b>.68</b>	<b>.664</b>
160186CM	L4004F51	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 4A	<b>.85</b>	<b>.76</b>	<b>.69</b>
220450CM	L4004L3	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 4A	<b>1.09</b>	<b>.99</b>	<b>.90</b>
160240CM	Q4004LT	TEC	TO-220AB	Quadrac	400 V <sub>DRM</sub> , 4A	<b>1.05</b>	<b>.96</b>	<b>.87</b>
160207CM	Q4008L4	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 8A	<b>1.19</b>	<b>1.06</b>	<b>.97</b>
220492CM	Q4008R4	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 8A	<b>.95</b>	<b>.86</b>	<b>.77</b>
139336CM	Q4015L5	♦	TO-220AB	Triac	400 V <sub>DRM</sub> , 15A	<b>1.55</b>	<b>1.36</b>	<b>1.25</b>
160143CM	Q4025L6	TEC	TO-220AB	Triac	400 V <sub>DRM</sub> , 25A	<b>1.69</b>	<b>1.51</b>	<b>1.40</b>
160215CM	Q6008L5	TEC	TO-220AB	Triac	600 V <sub>DRM</sub> , 8A	<b>1.09</b>	<b>.98</b>	<b>.88</b>
160231CM	Q6015L5	TEC	TO-220AB	Triac	600 V <sub>DRM</sub> , 15A	<b>1.59</b>	<b>1.44</b>	<b>1.08</b>
220513CM	Q6025P5	TEC	TO-3	Triac	600 V <sub>DRM</sub> , 25A	<b>6.45</b>	<b>5.81</b>	<b>5.29</b>
220505CM	Q6025R6	TEC	TO-220AB	Triac	600 V <sub>DRM</sub> , 25A	<b>2.25</b>	<b>2.05</b>	<b>1.85</b>
220521CM	Q6035P5	TEC	TO-3	Triac	600 V <sub>DRM</sub> , 35A	<b>6.65</b>	<b>5.88</b>	<b>5.44</b>
140425CM	2N6071A	♦	TO-225AA	Triac	200 V <sub>DRM</sub> , 4A	<b>.29</b>	<b>.27</b>	<b>.25</b>

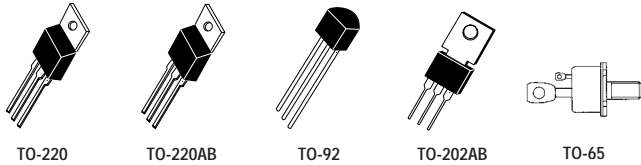
♦ Jameco Value Offering   TEC = Teccor

Committed to You

We're committed to providing you with the best service in the industry.



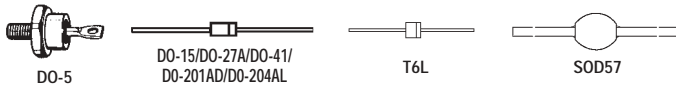
## Silicon Controlled Rectifiers (SCRs)



Part No.	Product No.	Mfr.	Pkg.	Rating	* Minimum order 10 pieces			
					1	10	100	1000
14859CM	C38M	+	TO-65	600 PRV, 35A (2N3899)	\$6.89	\$6.19	\$5.59	\$5.05
14736CM	C106B1*	+	TO-202	200 PRV, 4A (2N6239)†	.67	.54	.46	.40
14752CM	C122B	+	TO-220	200 PRV, 8A†	.73	.66	.63	.52
14761CM	C122M	+	TO-220	600 PRV, 8A†	1.35	1.25	1.05	.69
220484CM	EC103B	+	TO-92	200 V <sub>DRM</sub> , 0.8A	.26	.23	.21	.18
220530CM	T106B1	+	TO-202AB	200 V <sub>DRM</sub> , 4A	\$0.58	.36	.324	.30
160119CM	T106D1	+	TO-202AB	400 V <sub>DRM</sub> , 4A	\$0.59	.39	.349	.319
119802CM	2N5060	+	TO-92	25 PRV, 0.8A	*	.19	.15	.12
211422CM	2N5061	+	TO-92	60 PRV, 0.8A	*	.14	.13	.11
120070CM	2N5062	+	TO-92	100 PRV, 0.8A	*	.13	.12	.11
211431CM	2N5064	+	TO-92	200 PRV, 0.8A	*	.18	.16	.14
140417CM	2N6507	+	TO-220AB	400 PRV, 25A	.83	.75	.63	.56
220548CM	S4025L	TEC	TO-220AB	400 V <sub>DRM</sub> , 25A	1.49	1.42	1.34	1.30
160135CM	S6025L	TEC	TO-220AB	600 V <sub>DRM</sub> , 25A	\$1.75	1.42	1.28	1.15

† Isolated + Jameco Value Offering TEC = Teccor \* 10 pcs. in Diode/Rectifier cabinet kit, below

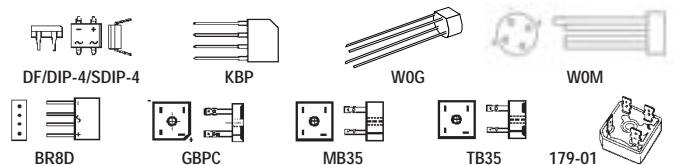
## Rectifiers



Part No.	Product No.	Mfr.	Pkg.	Rating	* Minimum order 10 pieces			
					1	10	100	1000
177754CM	T6A05L	+	T6L	50 PIV, 6A	\$3.36	\$3.32	\$2.88	\$2.65
177762CM	T6A10L	+	T6L	100 PIV, 6A	.75	.65	.55	.45
177818CM	T6A100L	+	T6L	1000 PIV, 6A	.80	.72	.65	.49
618100CM	MBR745	+	TO-220	35 V <sub>RRM</sub> , 7.5A	.56	.49	.437	.393
301444CM	MBR1060	+	TO-220	60 V <sub>RRM</sub> , 10A	.63	.56	.48	.43
35924CM	1N1188	+	DO-5	400 PRV, 35A	4.49	4.45	4.14	3.28
645706CM	MBR1645	+	TO-220	45 V <sub>RRM</sub> , 16A	.85	.74	.63	.56
618097CM	MBR2535CR	+	TO-220	35 V <sub>RRM</sub> , 30A	.85	.78	.71	.67
35975CM	1N4001*	+	DO-41	50 PRV, 1A	*	.04	.028	.017
76961CM	1N4002	+	DO-41	100 PRV, 1A	*	.04	.028	.017
76970CM	1N4003	+	DO-41	200 PRV, 1A	*	.04	.028	.017
35991CM	1N4004**	+	DO-41	400 PRV, 1A	*	.04	.028	.017
76988CM	1N4005	+	DO-41	600 PRV, 1A	*	.04	.028	.017
76996CM	1N4006	+	DO-41	800 PRV, 1A	*	.04	.028	.017
36011CM	1N4007*	+	DO-41	1000 PRV, 1A	*	.04	.03	.021
227846CM	1N5059	+	SOD57	200 V <sub>R</sub> , 2A	*	.10	.06	.054
227854CM	1N5060	+	SOD57	400 V <sub>R</sub> , 2A	*	.08	.07	.052
227862CM	1N5061	+	SOD57	600 V <sub>R</sub> , 2A	*	.09	.08	.06
227871CM	1N5062	+	SOD57	800 V <sub>R</sub> , 2A	*	.26	.24	.20
77075CM	1N5400	+	DO-27A	50 PRV, 3A	*	.10	.098	.074
36249CM	1N5401	+	DO-27A	100 PIV, 3A	*	.09	.076	.051
77083CM	1N5402	+	DO-27A	200 PRV, 3A	*	.10	.075	.059
36265CM	1N5404*	+	DO-27A	400 PRV, 3A	*	.10	.09	.057
36273CM	1N5408*	+	DO-27A	1000 PRV, 3A	*	.15	.11	.08
177949CM	1N5817	+	DO-204AL	20 PIV, 1A	*	.12	.09	.078
177957CM	1N5818	+	DO-204AL	30 PIV, 1A	*	.07	.058	.052
177965CM	1N5819	+	DO-204AL	40 PIV, 1A	*	.10	.085	.075
177973CM	1N5820	+	DO-201AD	20 PIV, 3A	*	.14	.125	.112
177981CM	1N5821	+	DO-201AD	30 PIV, 3A	*	.16	.13	.097
177990CM	1N5822	+	DO-201AD	40 PIV, 3A	*	.21	.18	.134
618062CM	40CP0060	+	TO-247AC	60 V <sub>RRM</sub> , 40A (Schottky)	2.25	1.45	1.32	1.22

+ Jameco Value Offering \* 10 pcs./ \*\* 100 pcs. in Diode/Rectifier cabinet kit, right

## Bridge Rectifiers



Part No.	Product No.	Mfr.	Pkg.	Rating	1 10 100 1000			
					1	10	100	1000
178001CM	DF005M	+	DF	50 PIV, 1A	\$0.35	\$0.30	\$0.22	\$0.13
255960CM	DF005S	+	SDIP-4	50 PIV, 1A	.25	.23	.21	.16
103000CM	DF01M	+	DF	100 PIV, 1A	.30	.26	.21	.17
103042CM	DF02M	+	DF	200 PIV, 1A	.35	.30	.22	.13
102971CM	DF04M	+	DF	400 PIV, 1A	.37	.32	.23	.17
103034CM	DF06M	+	DF	600 PIV, 1A	.40	.31	.27	.24
103026CM	DF10M	+	DF	1000 PIV, 1A	.30	.27	.23	.15
256559CM	DF10S	+	SDIP-4	1000 PIV, 1A	.32	.29	.23	.17
256604CM	DF01S	+	SDIP-4	100 PIV, 1.5A	.23	.22	.21	.20
256591CM	DF02S	+	SDIP-4	200 PIV, 1.5A	.31	.28	.22	.165
256583CM	DF04S	+	SDIP-4	400 PIV, 1.5A	.24	.22	.17	.13
256575CM	DF08M	+	DIP-4	800 PIV, 1.5A	.35	.30	.25	.18
256567CM	DF08S	+	SDIP-4	800 PIV, 1.5A	.26	.24	.22	.165
145429CM	KBP02M	+	KBP	200 PIV, 1.5A	.40	.35	.29	.19
119562CM	KBP04M*	+	KBP	400 PIV, 1.5A	.48	.45	.35	.25
279494CM	W005G	+	WOG	50 PIV, 1.5A	.38	.32	.27	.19
103018CM	W02G	+	WOG	200 PIV, 1.5A	.47	.39	.34	.21
102980CM	W04G	+	WOG	400 PIV, 1.5A	.41	.37	.33	.245
102998CM	W06G	+	WOG	600 PIV, 1.5A	.43	.41	.33	.245
179469CM	W08G	+	WOG	800 PIV, 1.5A	.35	.32	.26	.18
279515CM	W10G	+	WOG	1000 PIV, 1.5A	.42	.40	.33	.22
178124CM	W005M	+	WOM	50 PIV, 1.5A	.29	.24	.19	.13
178132CM	W01M	+	WOM	100 PIV, 1.5A	.36	.27	.20	.17
178141CM	W02M	+	WOM	200 PIV, 1.5A	.38	.33	.28	.19
178175CM	W08M	+	WOM	800 PIV, 1.5A	.35	.29	.257	.16
178183CM	BR805D	+	BR8D	50 PIV, 2A	.55	.49	.39	.35
178204CM	BR82D	+	BR8D	200 PIV, 2A	.85	.77	.69	.62
178247CM	BR8120D	+	BR8D	1000 PIV, 2A	.59	.49	.39	.35
253260CM	2KBP06M	+	KBP	600 PIV, 2A	.48	.42	.37	.25
253286CM	2KBP10M	+	KBP	1000 PIV, 2A	.40	.35	.29	.24
179477CM	GBPC25-01	+	GBPC	100 PIV, 25A	2.29	1.86	1.53	1.22
179485CM	GBPC25-02	+	GBPC	200 PIV, 25A	3.25	2.69	2.25	1.65
178280CM	MB254	+	MB35	400 PIV, 25A	2.35	2.10	1.90	1.70
178415CM	MB354	+	MB35	400 V <sub>RRM</sub> , 12A	2.95	2.65	2.39	2.15
178335CM	TB252	+	TB35	200 PIV, 25A	2.09	1.85	1.69	1.50
25574CM	MDA990-3	+	179-01	200 PIV, 30A	3.99	3.45	2.99	1.85
25591CM	MDA990-6	+	179-01	600 PIV, 30A	4.59	4.29	3.99	3.59
299882CM	GBPC1204	+	GBPC	400 V <sub>RRM</sub> , 12A	2.89	2.52	1.95	1.15
299874CM	GBPC1206	+	GBPC	600 V <sub>RRM</sub> , 12A	3.15	2.67	1.95	1.46
299866CM	GBPC1206W	+	GBPC-W	600 V <sub>RRM</sub> , 12A	1.89	1.55	1.10	1.04
178431CM	MB358	+	MB35	800 PIV, 35A	3.59	3.29	2.75	1.85
178503CM	TB3510	+	TB35	1000 PIV, 35A	3.25	2.65	2.40	2.15

+ Jameco Value Offering \* 10 pcs. in Diode/Rectifier cabinet kit, below

† DF/KBP/WOG/WOM/179-01 – plastic case; GBPC/TB35 – plastic case, metal base; MB35 – metal case

## Diode/Rectifier Assortment Cabinet Kit

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes:

20 drawer component cabinet (319599CM),  
20 clear plastic drawers (319601CM),  
20 clear dividers (319610CM), pg 314 and  
30 adhesive labels for drawers to identify parts in kit

10 each: 1N270, 1N751A, 1N3600, 1N4001, 1N4007, 1N4733A,  
1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M  
100 each: 1N914, 1N4004, 1N4148

Part No.	Description	Wt. (lbs.)	1	10
82587CM	420 pcs. (15 types) diode kit	5.0	\$39.95	\$35.95
130366CM	Refill for 82587CM (420 pcs.)	0.3	25.95	22.30

## Optoisolators

Quantity **SAVE**

Lower **\$\$\$**



DIP-4



DIP-6



DIP-8













DIP-16



TO-18









\* Minimum order 10 pieces

Part No.	Cross Ref.	Pkg.	Description	1	10	100
40985CM	4N25	DIP-6	Diode, NPN phototransistor	<b>.22</b>	<b>.18</b>	<b>.16</b>
41005CM	4N26	DIP-6	Diode, NPN phototransistor	.25	.22	.18
144240CM	4N27 	DIP-6	Diode, NPN phototransistor	<b>.24</b>	<b>.20</b>	<b>(.15)</b>
41013CM	4N28	DIP-6	Diode, NPN phototransistor	<b>.46</b>	<b>.372</b>	<b>(.279)</b>
277421CM	4N29	DIP-6	General purpose photodarlington	.25	.21	.158
277456CM	4N30 	DIP-6	General purpose photodarlington	.26	.216	.185
320565CM	4N31 	DIP-6	General purpose photodarlington	<b>.30</b>	<b>.273</b>	<b>(.197)</b>
41021CM	4N32	DIP-6	Diode, NPN photodarlington	.26	.24	.21
41030CM	4N33	DIP-6	Diode, NPN photodarlington	.25	.24	.22
41056CM	4N35	DIP-6	Diode, NPN phototransistor	.24	.216	.213
277464CM	4N36 	DIP-6	General purpose phototransistor	*	.17	.151
320371CM	4N37 	DIP-6	General purpose phototransistor	.27	.264	.227
277481CM	4N38	DIP-6	High-voltage phototransistor	<b>.51</b>	<b>.43</b>	<b>(.323)</b>
277499CM	4N39 	DIP-6	Photo SCR optocoupler	.86	.78	.70
277510CM	6N135 	DIP-8	High-speed transistor optocoupler	<b>.63</b>	<b>.54</b>	<b>(.405)</b>
42471CM	6N136	DIP-8	High speed transistor optocoupler	.52	.473	.415
113911CM	6N137	DIP-8	High-speed logic optocoupler	.59	.50	.42
42489CM	6N138	DIP-8	Low input curr., hi-gain split darlington	<b>.73</b>	<b>.62</b>	<b>(.467)</b>
113929CM	6N139	DIP-8	High-speed, high-gain darlington	.75	.64	.51
320389CM	CNY17-1 	DIP-6	High BVceo phototransistor	.26	.225	.153
320397CM	CNY17-2	DIP-6	High BVceo phototransistor	<b>.27</b>	<b>.191</b>	<b>(.143)</b>
320400CM	CNY17-3	DIP-6	High BVceo phototransistor	.26	.191	.153
320418CM	CNY17-4	DIP-6	High BVceo phototransistor	.26	.191	.153
277561CM	H11A1	DIP-6	General purpose phototransistor	.27	.22	.20
18825CM	H11AA1	DIP-6	Dual infrared diode, NPN phototransistor	<b>.51</b>	<b>.383</b>	<b>(.291)</b>
277587CM	H11A2	DIP-6	General purpose phototransistor	<b>.30</b>	<b>.21</b>	<b>(.158)</b>
320434CM	H11AA2	DIP-6	AC input phototransistor optocoupler	.35	.286	.26
277595CM	H11A3	DIP-6	General purpose phototransistor	<b>.26</b>	<b>.22</b>	<b>(.165)</b>
320442CM	H11AA3	DIP-6	AC input phototransistor optocoupler	.34	.274	.249
281201CM	H11A4	DIP-6	General purpose phototransistor	<b>.34</b>	<b>.29</b>	<b>(.218)</b>
320451CM	H11AA4	DIP-6	AC input phototransistor optocoupler	<b>.38</b>	<b>.307</b>	<b>.286</b>
320426CM	H11A5	DIP-6	General purpose phototransistor	.30	.183	.168
320573CM	H11B1	DIP-6	Photodarlington optocoupler	<b>.28</b>	<b>.24</b>	<b>(.18)</b>
320581CM	H11B2	DIP-6	Photodarlington optocoupler	<b>.30</b>	<b>.224</b>	<b>(.168)</b>
320602CM	H11B3	DIP-6	Photodarlington optocoupler	<b>.36</b>	<b>.31</b>	<b>(.233)</b>
18833CM	H11C3	DIP-6	Photo SCR optocoupler	<b>.89</b>	<b>.74</b>	<b>.61</b>
114008CM	H11C4	DIP-6	Photo SCR optocoupler	.78	.66	.59
320493CM	H11D1	DIP-6	High voltage phototransistor	.57	.382	.361
320514CM	H11D2	DIP-6	High voltage phototransistor	<b>.44</b>	<b>.37</b>	<b>(.278)</b>
320522CM	H11D3	DIP-6	High voltage phototransistor	<b>.48</b>	<b>.41</b>	<b>(.308)</b>
113996CM	H11F1	DIP-6	Isolated FET	1.79	1.52	1.16
320186CM	H11F2	DIP-6	Photo FET optocouplers	<b>1.75</b>	<b>1.49</b>	<b>(1.12)</b>
320194CM	H11F3	DIP-6	Photo FET optocouplers	<b>1.59</b>	<b>1.30</b>	<b>1.19</b>
277712CM	H11G1	DIP-6	High-voltage photodarlington	.45	.448	.33
277721CM	H11G2	DIP-6	High-voltage photodarlington	<b>.38</b>	<b>.34</b>	<b>.294</b>
277747CM	H11G3	DIP-6	High-voltage photodarlington	<b>.67</b>	<b>.57</b>	<b>(.428)</b>
113988CM	H11L1	DIP-6	Schmitt trigger output photocoupler	<b>.55</b>	<b>.50</b>	<b>.49</b>
320207CM	H11L2	DIP-6	Photo FET optocouplers	.71	.59	.48
320215CM	H11L3	DIP-6	Photo FET optocouplers	<b>.65</b>	<b>.55</b>	<b>(.413)</b>
138069CM	ISP817-3	DIP-4	Low power transistor output	.99	.84	<b>(.63)</b>
114083CM	ISQ203	DIP-16	Quad channel NPN phototransistor	<b>2.95</b>	<b>2.66</b>	<b>(1.99)</b>
320477CM	MCT2	DIP-6	Phototransistor optocoupler	.42	.316	.24
24918CM	MCT6	DIP-8	Dual channel NPN phototransistor	.56	.52	.47
26278CM	MOC3010	DIP-6	Bilateral triac driver	.56	.52	.345
95020CM	MOC3011	DIP-6	Bilateral triac driver	.68	.51	.388
277763CM	MOC3012	DIP-6	Random phase triac driver	<b>.65</b>	<b>.49</b>	<b>.378</b>
277780CM	MOC3020	DIP-6	Random phase triac driver	<b>.52</b>	<b>.398</b>	<b>.31</b>
95038CM	MOC3021	DIP-6	Bilateral triac driver	<b>.46</b>	<b>.39</b>	<b>(.29)</b>
277801CM	MOC3022	DIP-6	Random phase triac driver	<b>.44</b>	<b>.398</b>	<b>(.299)</b>
277819CM	MOC3023	DIP-6	Random phase triac driver	<b>.38</b>	<b>.349</b>	<b>(.294)</b>

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

## Optoisolators (Continued)

Part No.	Cross Ref.	Pkg.	Description	1	10	100
26294CM	MOC3031	DIP-6	Zero crossing triac driver	<b>\$.55</b>	<b>\$.457</b>	<b>\$.45</b>
113953CM	MOC3032	DIP-6	Zero crossing triac driver	.61	.52	.47
277827CM	MOC3033 	DIP-6	Zero crossing triac driver	<b>.64</b>	<b>.62</b>	<b>.60</b>
277835CM	MOC3041	DIP-6	Zero crossing triac driver	<b>.69</b>	<b>.61</b>	<b>(.458)</b>
113961CM	MOC3042 	DIP-6	Zero crossing triac driver	<b>.65</b>	<b>.55</b>	<b>(.413)</b>
277843CM	MOC3043	DIP-6	Zero crossing triac driver	.59	.53	.46
277860CM	MOC3051 	DIP-6	Random phase triac driver	<b>.69</b>	<b>.66</b>	<b>.60</b>
277894CM	MOC3052	DIP-6	Random phase triac driver	<b>.57</b>	<b>.55</b>	<b>.52</b>
277915CM	MOC3061	DIP-6	Zero crossing phototriac driver	.64	.59	.50
277931CM	MOC3062 	DIP-6	Zero crossing phototriac driver	<b>.69</b>	<b>.59</b>	<b>(.443)</b>
133874CM	MOC3063 	DIP-6	Zero crossing triac driver	.63	.54	.42
320629CM	MOC3082	DIP-6	Zero crossing optoisolator	<b>1.00</b>	<b>.81</b>	<b>.63</b>
320611CM	MOC3083 	DIP-6	Zero crossing optoisolator	<b>.98</b>	<b>.83</b>	<b>(.62)</b>
320653CM	PS2501-1	DIP-4	Single transistor photocoupler	.20	.19	.185
320661CM	PS2501-2	DIP-8	Single transistor photocoupler	.51	.459	.418
160338CM	PS2501-4	DIP-16	Photo darlington & transistor/detector	1.09	1.02	.88
320688CM	PS2502-1	DIP-4	Darlington photocoupler	.41	.39	.353
320696CM	PS2502-2	DIP-8	Darlington photocoupler	1.18	.96	.87
160362CM	PS2502-4	DIP-16	Photo darlington & transistor/detector	1.75	1.61	1.39
320709CM	PS2505-1	DIP-4	High isolation voltage photocoupler	.33	.32	.302
320717CM	PS2505-2 	DIP-8	High isolation voltage photocoupler	.79	.76	.69
320725CM	PS2505-4	DIP-16	High isolation voltage photocoupler	1.29	1.18	1.06
320750CM	PS2506-1 	DIP-4	High isolation voltage photocoupler	.54	.51	.462
320784CM	PS2532-1	DIP-4	High collector to high emitter volt. photocoupler	<b>.54</b>	<b>.46</b>	<b>(.345)</b>
320792CM	PS2532-2	DIP-8	High collector to high emitter volt. photocoupler	<b>1.09</b>	<b>.98</b>	<b>.90</b>
320805CM	PS2532-4	DIP-16	High collector to high emitter volt. photocoupler	<b>1.95</b>	<b>1.87</b>	<b>1.73</b>
320813CM	PS2561-1	DIP-4	High isolation voltage photocoupler	.23	.22	.21
320821CM	PS2561-2	DIP-8	High isolation voltage photocoupler	.75	.71	.68
320830CM	PS2561-4	DIP-16	High isolation voltage photocoupler	<b>2.29</b>	<b>1.95</b>	<b>(1.46)</b>

## Slotted Optical Switches

4-pin w/ tab



4-pin w/o tab



Part No.	Cross Ref.	Pkg.	Description	1	10	100
114091CM	H21A1	4-pin w/ tab	Single channel slotted interrupter	<b>\$.69</b>	<b>\$.64</b>	<b>\$.554</b>
278011CM	H21A2	4-pin w/ tab	Phototransistor optical interrupter	.99	.71	.58
320901CM	H21A3	4-pin w/ tab	Phototransistor optical switch	.70	.61	.47
278070CM	H21B1	4-pin w/ tab	Photodarlington optical interrupter	<b>.76</b>	<b>.70</b>	<b>.53</b>
278088CM	H21B2	4-pin w/ tab	Photodarlington optical interrupter	<b>1.09</b>	<b>.98</b>	<b>(.74)</b>
278096CM	H21B3	4-pin w/ tab	Photodarlington optical interrupter	<b>1.27</b>	<b>1.08</b>	<b>(.81)</b>
114104CM	H22A1	4-pin w/o tab	Slotted optical switch	.61	.51	.462
278029CM	H22A2	4-pin w/o tab	Slotted optical switch	1.15	1.05	.93
278045CM	H22A3	4-pin w/o tab	Slotted optical switch	<b>.74</b>	<b>.63</b>	<b>(.47)</b>
278109CM	H22B1	4-pin w/o tab	Photodarlington optical interrupter	<b>.68</b>	<b>.58</b>	<b>.54</b>
278117CM	H22B2	4-pin w/o tab	Photodarlington optical interrupter	.87	.71	.64
196058CM	ITR-8105	4-pin w/o tab	Slotted optical switch	.48	.42	.38

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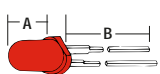


Fig. 1

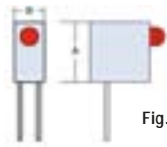


Fig. 2

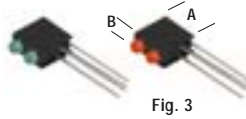


Fig. 3

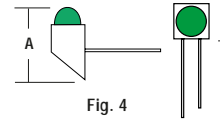


Fig. 4

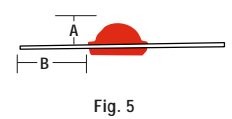


Fig. 5



Fig. 6

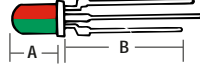


Fig. 7

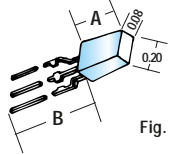


Fig. 8



Fig. 9

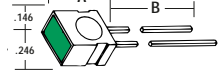


Fig. 10

Lower \$\$\$

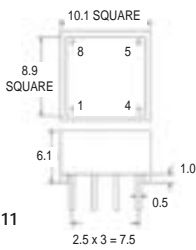


Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15

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## Standard-Output LEDs

Call for OEM PRICING – we carry major manufacturers.

Quantity SAVE

\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A*	B*						1	10	100	1000
333219CM	LY12340	1	Yellow	Yellow diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	585	112	* .08	\$.063	\$.06	
334211CM	LA16BY	2	Yellow	Yellow diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	12	585	50	\$.30	.26	.241	.124 .093
34657CM	LY2040	1	Yellow	Yellow diffused (XC209Y)	T1	0.119/3	0.16	0.68	0.08	2.3	15	585	36	* .13	.11	.075	
333884CM	UT6331-4	1	Yellow	Yellow diffused	T1	0.119/3	0.17	0.98	0.10	2.1	24	589	55	* .088	.069	.049	
333294CM	LVY2643-1	1	Yellow	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	350	595	40	.21	.184	.147	.11
206480CM	LVY2041	1	Yellow	Yellow transparent	T1	0.119/3	0.17	0.69	0.08	2.3	450	595	30	* .14	.12	.10	
235424CM	LA45B/2I	3	Red	Red diffused (dual)	T1	0.119/3	0.40	0.18	0.10	1.7	12	630	50	\$.99	.49	.45	.39 .29
136282CM	LA44B/2I	3	Orange	Red diffused (dual)	T1	0.119/3	0.38	0.17	0.10	1.7	12	635	50	\$.49	.39	.36	.312 .234
333868CM	UT6341R-41	1	Hi-eff Red	Orange diffused	T1	0.119/3	0.17	1.00	0.10	2.1	35	630	55	* .098	.06	.045	
333366CM	LHRF2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	300	630	40	.22	.20	.16	.12
333198CM	LE12340	1	Hi-eff Red	Orange diffused	T1	0.119/3	0.13	0.98	0.10	1.7	6.5	635	112	* .091	.072	.054	
333171CM	HLMP-K155-JV	1	Red	Red clear	T1	0.119/3	0.19	1.04	0.10	1.6	3.0	660	45	* .079	.078	.057	
333850CM	UT6371-41-M1	1	Red	Red diffused	T1	0.119/3	0.17	0.98	0.10	1.7	63	660	47	* .098	.064	.061	
333251CM	LSR2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	120	660	40	* .167	.109	.082	
333260CM	LHR2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	300	660	40	\$.28	.24	.162	.129 .097
206498CM	LHR2041	1	Red	Red transparent	T1	0.119/3	0.17	0.69	0.08	2.0	350	660	30	* .15	.12	.09	
334203CM	LA16B/H	2	Red	Red diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	4.2	697	50	* .14	.11	.083	
94529CM	LH2040	1	Red	Red diffused (XC209RB)	T1	0.119/3	0.18	1.04	0.07	2.3	4.5	697	36	* .19	.15	.12	
114673CM	LH2043	1	Red	Water clear (BR209)	T1	0.119/3	0.14	0.98	0.07	2.3	12	697	30	* .19	.15	.12	
94553CM	LHG2062	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1	0.119/3	0.18	1.06	0.08	2.3	3 & 15	697/565	36	.29	.25	.21	.16
333391CM	UT6341-41	1	Orange	Orange diffused	T1	0.119/3	0.17	0.94	0.10	2.1	35	630	55	* .138	.11	.082	
333833CM	L112340	1	Orange	Red diffused	T1	0.119/3	0.16	0.98	0.10	1.7	6.5	635	112	* .102	.072	.054	
34606CM	LSG2040	1	Green	Green diffused (XC209G)	T1	0.119/3	0.13	1.05	0.08	2.2	15	560	50	* .15	.11	.08	
333201CM	LG12340	1	Green	Green diffused	T1	0.119/3	0.13	0.98	0.10	1.7	9.6	565	112	* .08	.063	.06	
211087CM	LG2040	1	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	36	* .11	.094	.071	
334220CM	LA16B/G	2	Green	Green diffused PCB mount indicators	T1	0.119/3	0.29	0.18	0.10	1.7	15	565	50	.32	.287	.146	.109
235416CM	LA45B/2G	3	Green	Green diffused (dual)	T1	0.119/3	0.40	0.18	0.10	1.7	15	565	50	\$.99	.66	.59	.54 .48
136274CM	LA44B/2G	3	Green	Green diffused (dual)	T1	0.119/3	0.38	0.17	0.10	2.3	15	565	50	.54	.49	.39	.294
333315CM	MV7441-JV	1	Green	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	120	565	40	.21	.187	.149	.112
175679CM	LVG2041	1	Green	Green transparent	T1	0.119/3	0.17	0.69	0.08	2.2	129	565	30	* .07	.06	.05	
114681CM	LVG2043	1	Green	Water clear (BG209)	T1	0.119/3	0.14	0.98	0.07	2.2	129	565	30	* .09	.07	.055	
137411CM	LVB2040	1	Blue	Blue diffused	T1	0.119/3	0.21	0.98	0.10	4.8	10	430	50	\$.49	2.09	1.91	1.66 1.57
334457CM	LSB12640	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	430	—	.75	.63	.60	.58
333382CM	UT63B1-41-M1A2	1	Blue	Blue diffused	T1	0.119/3	0.17	0.98	0.10	3.8	50	466	54	.75	.714	.68	.66
34825CM	LY3330	1	Yellow	Yellow diffused (XC556Y)	T1 3/4	0.197/5	0.30	0.82	0.07	2.3	12	585	36	* .19	.15	.12	
104264CM	LA93B/Y-1	4	Yellow	Yellow diffused (XC410Y)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	25	585	46	.28	.24	.205	.154
334406CM	LY9033	5	Yellow	Water clear	T1 3/4	0.197/5	0.05	0.27	0.03	1.7	30	585	20	.20	.185	.176	.132
334107CM	UT1831-81-S	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	16.4	589	44	* .098	.064	.061	
333964CM	UT1834-81-S	1	Yellow	Yellow Clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	55.8	589	22	* .098	.069	.049	
334385CM	UT1833-81-M181	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	450	590	10	* .11	.064	.048	
333622CM	LHY3330/HO	1	Yellow	Yellow diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	350	595	40	\$.31	.25	.24	.154 .116

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 55

<sup>1</sup> Reverse polarity to change color

Blue Part No. = Limited Quantity Available

Mounting Hardware listed on pages 52-55

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
334377CM	UT1841R-81	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	\$ .098	\$ .064	\$ .061
334060CM	UT1841R-81-S	1	Hi-eff Red	Red diffused	T1 3/4	0.197/5	0.34	0.94	0.10	2.1	23.1	630	44	*	* .098	* .085	* .064
333921CM	UT1844R-81-S	1	Hi-eff Red	Red clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	78.8	630	22	*	* .098	* .069	* .049
334271CM	LA93B/I	4	Hi-eff Red	Red diffused PCB mount indicators	T1 3/4	0.197/5	0.36	0.15	0.10	1.7	25	635	46		.30	.23	.165
34711CM	LEG3362	1	Red/Green	White diffused bi-color/bi-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.01	0.09	2.3	7.5	635/565	30		.33	.28	.22
333972CM	UT1871-81-M1	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	660	25	*	* .098	* .064	* .061
334115CM	UT1872-81-M1	1	Red	White diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.7	75	660	25	*	* .146	* .116	* .087
333454CM	LSR3330/HO/A	1	Red	Red diffused	T1 3/4	0.197/5	0.34	1.00	0.10	1.5	140	660	40	*	* .14	* .128	* .113
333462CM	LHR3330/HO/A	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	220	660	40	*	* .14	* .132	* .099
334035CM	UT1871-81-UR-P18	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.94	0.10	1.9	250	660	25	*	* .098	* .082	* .078
333489CM	LUR3330/HO/A	1	Red	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	380	660	40		.20	.174	.146
94511CM	LH3330	1	Red	Red diffused (XC556RB)	T1 3/4	0.197/5	0.31	0.81	0.08	2.3	3	697	36	*	* .17	* .13	* .10
104248CM	LA93B/H-1	4	Red	Red diffused (XC410R)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	6.5	697	46	*	* .23	* .19	* .17
34745CM	LH3333	1	Red	Water clear (XC554R)	T1 3/4	0.197/5	0.30	1.00	0.08	2.3	7.5	697	20	*	* .15	* .11	* .065
334174CM	LH13360	6	Red/Orange	Red diffused bi-color/solid state <sup>1</sup>	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 3.0	697/635	30		.25	.213	.128
334182CM	LGH3362	6	Red/Green	White diffused bi-color/solid state <sup>1</sup>	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2.0 & 8.0	697/565	30		.23	.222	.146
34673CM	LHG3392	7	Red/Green	White diffused bi-color/tri-state <sup>1</sup>	T1 3/4	0.197/5	0.30	1.02	0.03	2.3	3 & 12	697/565	70		.24	.22	.20
334051CM	UT1841-81-S	1	Orange	Orange diffused	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	23.1	630	44	*	* .15	* .12	* .09
333243CM	UT2462-24-D51	7	Orange/Green	White diffused bi-color/tri-state <sup>1</sup>	T1 3/4	0.197/5	0.30	0.80	0.10	2.1	11.7	630/572	70		.26	.238	.136
107393CM	LE3330	1	Orange Red	Orange diffused (XC556A)	T1 3/4	0.197/5	0.30	1.02	0.08	2.3	12	635	36	*	* .15	* .088	* .066
333235CM	LI13530	1	Orange	Red diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	15	635	70	*	* .16	* .128	* .076
334001CM	LI3330	1	Orange	Orange diffused	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	24	635	36	*	* .112	* .079	* .059
333913CM	LE3331	1	Orange	Orange transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	75	635	20	*	* .135	* .079	* .059
34761CM	LG3330	1	Green	Green diffused (XC556G)	T1 3/4	0.197/5	0.31	0.79	0.09	2.3	12	565	36	*	* .15	* .14	* .10
334086CM	LG13740	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	20	565	68	*	* .098	* .064	* .061
333227CM	LG13530	1	Hi-eff Green	Green diffused	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	25	565	70	*	* .16	* .128	* .072
104256CM	LA93B/G-1	4	Green	Green diffused (XC410G)	T1 3/4	0.197/5	0.35	0.89	0.08	2.3	30	565	46	*	* .23	* .19	* .17
11359CM	LG3333	1	Green	Water clear (BG5704)	T1 3/4	0.197/5	0.30	1.04	0.07	2.3	100	565	20	*	* .15	* .134	* .10
333956CM	LG3331	1	Green	Green transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	150	565	20	*	* .098	* .064	* .061
333534CM	LVG3333/S46	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	220	565	30	*	* .168	* .134	* .10
334393CM	UT1821-81-S	1	Green	Green diffused	T1 3/4	0.197/5	0.35	1.00	0.10	2.1	20	572	44	*	* .098	* .064	* .061
333948CM	UT1824-81-S	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	2.1	68.1	572	22	*	* .108	* .069	* .049
138691CM	LVB3330	1	Blue	Blue diffused	T1 3/4	0.197/5	0.34	0.98	0.10	4.8	10	430	36		1.95	1.76	1.40
137613CM	LSBI3333	1	Blue	Water clear	T1 3/4	0.197/5	0.34	0.98	0.08	3.8	160	430	15		1.95	1.85	1.50
134332CM	LT18B3-81UR	1	Blue	Water clear (383UBC)	T1 3/4	0.197/5	0.30	0.93	0.10	3.8	350	428	20		1.99	1.92	1.84
94561CM	LFG3360	1	Green	Green diffused blinking (XC5408) <sup>†</sup>	T1 3/4	0.197/5	0.30	1.05	0.08	3-12V	17	565	N/A		.59	.53	.48
351038CM	MCDL-517GD-F	1	Green	Green diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.0	15	565	120		.51	.419	.317
351046CM	MCDL-517YD-F	1	Yellow	Yellow diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	585	120		.51	.419	.332
351054CM	MCDL-517AD-F	1	Amber	Amber diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	585	120		.51	.419	.332
351011CM	MCDL-517ED-F	1	Hi-eff Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.7	20	635	120		.51	.419	.354
351020CM	MCDL-517ED-EF	1	Orange	Orange diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	20	635	120		.51	.419	.354
351062CM	MCDL-517SRD-F	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	200	660	120		.57	.469	.371
351071CM	MCDL-517LRD-F	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	300	660	120		.57	.469	.375
351097CM	MCDL-517URC-U14-F	1	Super Red	Water clear blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	300	660	30		.57	.469	.323
34690CM	LFH3360	1	Red	Red diffused blinking (XC5410) <sup>†</sup>	T1 3/4	0.197/5	0.30	0.94	0.07	3-12V	2.8	697	N/A		.49	.45	.39
138860CM	LFH3363	1	Red	Water clear blinking <sup>†</sup>	T1 3/4	0.197/5	0.35	1.06	0.10	3-12V	9	697	N/A		.56	.51	.403
351003CM	MCDL-517HD-F	1	Bright Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	2.1	5.0	700	120		.52	.49	.44
119634CM	LHR3930	1	Red	Red diffused Jumbo (LT9952L)	T2 1/2	0.315/8	0.44	0.84	0.07	2.0	100	660	44		.23	.20	.15
137621CM	LVG3930	1	Green	Green diffused Jumbo	T2 1/2	0.315/8	0.43	1.04	0.07	2.3	40	565	44	*	* .10	* .089	* .08
98992CM	LY3630	1	Yellow	Yellow diffused XJumbo (XC10V)	T3 1/4	0.394/10	0.54	1.04	0.08	2.3	15	585	42		.29	.26	.21
138683CM	LHR3630	1	Red	Red diffused XJumbo (XC10R)	T3 1/4	0.394/10	0.40	1.04	0.10	2.0	100	660	32		.45	.363	.313
98984CM	LVG3630	1	Green	Green diffused XJumbo (XC10G)	T3 1/4	0.394/10	0.40	1.07	0.08	2.3	40	565	32		.27	.26	.19
379647CM	MCDL-833YD	1	Yellow	Yellow diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.1	25	590	60		.66	.58	.48
379639CM	MCDL-833ED	1	Hi-eff Red	Red diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.0	25	635	60		.66	.58	.48
379663CM	MCDL-833SRD	1	Super Red	Red diffused	T3 1/4	0.393/10	0.47	1.00	0.10	1.8	200	660	60		.76	.67	.54
379604CM	MCDL-833DG	1	Green	Green diffused	T3 1/4	0.393/10	0.47	1.00	0.10	2.2	20	570	60		.66	.58	.48
104889CM	LEG5292	8	Red/Green	White diff. bi-color rectangular <sup>1</sup>	2 x 5	—	0.27	1.02	0.08	2.3	6/6	695/565	116		.23	.215	.183
333796CM	UT7231-81	9	Yellow	Yellow diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	5.0	585	70		.29	.241	.136
333761CM	UT7241-81	9	Hi-eff Red	Orange diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	*	* .127	* .08	* .074
333770CM	UT7241R-81	9	Hi-eff Red	Red diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	7.2	635	70	*	* .138	* .11	* .082
333788CM	UT7222-81	9	Green	White diffused rectangular	2.3x7.1	—	0.29	0.94	0.10	2.1	6.1	567	70		.22	.19	.135
333702CM	UT7321-81	10	Green	Green diffused rectangular	3.2x6.2	—	0.28	0.80	0.10	2.1	8.8	567	60		.23	.207	.146
333711CM	UT7331-81	10	Yellow	Yellow diffused rectangular	3.2x6.2	—	0.28	0.80	0.10	2.1	7.2	585	60		.29	.243	.184
333690CM	UT7341R-81	10	Orange	Red diffused rectangular	3.2x6.2	—	0.28	0.80	0.10	2.1	10.1	635	60		.23	.207	.146
94545CM	LG25030	10	Green	Green diff. rect. (XC57124G)	3.5 x 6	—	0.26	1.									



# Standard, Medium & High-Output LEDs



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

JAMECO ValuePro

## Standard-Output LEDs (Continued)

Call for OEM PRICING - we carry major manufacturers. \* Prepackaged: order in increments of 10, 100 or 1000

# See pg 48 for figures

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333753CM	UT5231-81	9	Yellow	Yellow diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	5.9	589	82	* .106	* .072	* .054	
333737CM	UT521R-81	9	Hi-eff Red	Red diffused rectangular	5.2 x 7.8	—	0.30	1.03	0.10	2.1	8.3	630	82	* .135	* .092	* .069	
334650CM	UB3541R-11 NRAK	11	Orange	0.35" lightbar	8.9 x 8.9	.35/8.9	0.20	—	0.10	2.1	7.8	635	N/A	.92	.80	.64	.483
334668CM	UB3531-11 NYAK	11	Yellow	0.35" lightbar	8.9 x 8.9	.35/8.9	0.20	—	0.10	2.1	5.5	585	N/A	.95	.80	.64	.483
334676CM	UB3521-11 NGAK	11	Green	0.35" lightbar	8.9 x 8.9	.35/8.9	0.20	—	0.10	2.1	6.8	567	N/A	.95	.80	.64	.483
334326CM	LG-150Y-DT	12	Yellow	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	5	585	150	* .135	* .092	* .069	
334297CM	LG-150Y-CT	12	Yellow	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	6.0	588	150	* .127	* .09	* .067	
334318CM	LG-150E-DT	12	Hi-eff Red	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	8	635	150	* .129	* .092	* .069	
334289CM	LG150E-CT	12	Orange	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	6.0	635	150	* .127	* .10	* .075	
334334CM	LG-150G-DT	12	Green	White diffused SMD 1206	SMD1206	—	0.06	0.13	—	1.7	10	573	140	* .118	* .095	* .078	
334300CM	LG-150G-CT	12	Green	Water clear SMD 1206	SMD1206	—	0.07	0.13	—	1.7	12.5	573	140	* .129	* .092	* .069	
334781CM	LG-150DBK-CT	12	Blue	Water clear SMD 1206	SMD1206	—	0.06	0.13	—	3.5	40	470	150	* 2.05	* 1.72	* 1.55	* 1.16
334351CM	LY9553/TR1	13	Yellow	Water clear surface mount	PLCC-2	—	0.12	1.30	—	1.7	7.0	585	84	* .172	* .131	* .098	
334369CM	LG9533/TR1	13	Green	Water clear surface mount	PLCC-2	—	0.12	1.30	—	1.7	9.0	565	84	* .131	* .116	* .095	

Dialight

MCD

Other Manufacturers — Great Deals

LITEON

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26745CM	MCDL-170EC	5	Red	Water clear	T 3/4	0.083/2.1	0.06	0.25	0.11	2.1	7	635	N/A	* .23	* .207	* .189	* .18
202489CM	MVL-301Y	1	Yellow	Yellow diffused	T1	0.119/3	0.14	1.12	0.10	2.1	9.0	585	N/A	* .10	* .08	* .06	
211086CM	LTL-4231N-022	1	Green	Green diffused	T1	0.119/3	0.13	1.10	0.10	2.1	12.6	565	N/A	* .053	* .048	* .043	
202471CM	MVL-301HR	1	Orange Red	Red diffused	T1	0.119/3	0.14	1.12	0.10	2.0	9.0	640	N/A	* .062	* .056	* .05	
135597CM	LTL307E*	1	Orange Red	Red diffused	T1 3/4	0.197/5	0.34	1.00	0.07	2.0	19	635	N/A	* .12	* .086	* .073	
320282CM	566-0306	14	Yellow	Yellow diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.1	3.5	583	N/A	* .89	* .76	* .46	* .345
320274CM	566-0206	14	Green	Green diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.2	4	565	N/A	* .88	* .74	* .53	* .399
320291CM	566-0406	14	Red	Red diffused rectangular	2 x 5mm	—	0.28	0.11	0.10	2.0	7.4	635	N/A	* .89	* .76	* .46	* .345
658291CM	MSL-194DR	12	Red	Water clear	SMD0603	---	0.03	0.06	---	1.8	20	660	130	* .09	* .075	* .065	
658304CM	MSL-174DR	12	Red	Water clear	SMD0805	---	0.05	0.08	---	1.8	20	660	130	* .09	* .075	* .065	
658283CM	MSL-154G	12	Green	Water clear	SMD1206	---	0.06	0.13	---	2.2	6.5	570	130	* .12	* .10	* .09	
658312CM	MSL-154DR	12	Red	Water clear	SMD1206	---	0.06	0.13	---	1.8	25	660	130	* .12	* .10	* .09	
658339CM	MSL-204Y	13	Yellow	Water clear	PLCC-2	---	0.08	0.13	---	2.1	182	590	120	* .39	* .37	* .33	* .19
658347CM	MSL-204MW	13	White	Water clear	PLCC-2	---	0.08	0.13	---	3.5	400	---	120	* 1.09	* .99	* .89	* .69

# See pg 48 for figures

↑↑ For mounting hardware see pg 52-55

\*10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 55

Quantity SAVE

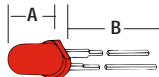


Fig. 1



Fig. 2

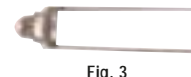


Fig. 3

\* Prepackaged: order in increments of 10, 100 or 1000

JAMECO ValuePro

## Medium-Output LEDs

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333307CM	LUY2643-1	1	Yellow	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	900	595	40	* .29	* .191	* .17	* .145
333278CM	LUR2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	550	660	—	* .25	* .176	* .16	* .12
333374CM	LURF2643-1	1	Red	Water clear	T1	0.119/3	0.13	0.98	0.10	1.5	550	630	40	* .20	* .18	* .173	* .13
333340CM	LHE2643	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	700	620	40	* .25	* .173	* .144	* .108
333358CM	LUE2643	1	Orange	Water clear	T1	0.119/3	0.13	0.98	0.10	1.7	900	620	40	* .24	* .23	* .21	* .158
334748CM	UT63B3-41-UR33	1	Blue	Water clear	T1	0.119/3	0.17	0.94	0.10	3.2	900	470	45	* 1.26	* 1.21	* .92	* .66
334764CM	CMD204UWC-JV	1	White	Water clear	T1	0.119/3	0.20	1.00	0.10	3.7	900	475	30	* 2.35	* 2.29	* 1.71	* 1.54
206501CM	LVY3331	1	Yellow	Yellow transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.2	700	595	20	* .19	* .15	* .112	
206519CM	LHR3331	1	Red	Red transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.0	660	550	20	* .19	* .15	* .12	
334490CM	LHRF3333/S46/A	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	700	630	30	* .142	* .108	* .081	
351089CM	MCDL-517URD-F	1	Super Red	Red diffused blinking	T1 3/4	0.197/5	0.34	1.00	0.10	1.8	500	660	120	* .52	* .431	* .334	* .25
333420CM	LSR3331	1	Red	Red transparent	T1 3/4	0.197/5	0.34	0.98	0.10	1.5	550	660	20	* .135	* .092	* .069	
152864CM	BVU-501RD4	1	Red Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9	600	660	20	* .29	* .24	* .19	* .15
333497CM	LSR13233	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	720	660	18	* .135	* .108	* .08	
333631CM	LUE13733	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	700	620	25	* .24	* .135	* .092	* .069
153154CM	LVG3333	1	Green	Water clear (HLMP-8509)	T1 3/4	0.197/5	0.36	0.90	0.10	2.3	500	565	20	* .079	* .063	* .047	
333551CM	LVG13233	1	Green	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.7	600	565	18	* .20	* .186	* .15	* .138
333542CM	LVG3833	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	550	565	12	* .16	* .149	* .138	
334465CM	LDBK3331/H0	1	Blue	Blue transparent	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	900	470	26	* 1.79	* 1.46	* 1.29	* 1.07
334756CM	UT5KW3-AA-UAE3-T01	2	White	Water clear	SMD1206	—	0.08	0.14	—	3.2	550	—	120	* 2.09	* 1.97	* 1.79	* 1.34

BrightView

Other Manufacturers — Great Deals

210825CM	BVU-5MIQN1	1	Orange Red	Red diffused	T1 3/4	0.197/5	0.30	1.07	0.08	2.1	600	615	—	* .25	* .222	* .20	* .18
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JAMECO ValuePro

## High-Output LEDs

• Typical DC forward current 20mA

See pages 52-55 for LED Mounting Hardware

Fig. 1



Fig. 2



Fig. 3

Part No.	Cross Ref. No.	# Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
217525CM	MCDPW-3004C	1	White	Water clear	T1	0.119/3	0.18	1.00	0.10	3.8	3000	—	30	* \$2.99	* \$2.85	* \$2.69	* \$2.55
333577CM	LUYS3333	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	587	20	* .30	* .135	* .092	* .069
197675CM	BVT-5E1T4E	1	Yellow	Water clear	T1 3/4	0.197/5	0.30	1.08	0.08	2.3	2800	592	15	* \$4.31	* .29	* .275	* .262

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.






































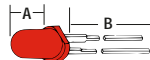
JAMECO ValuePro

## High-Output LEDs (Continued)

↑ See pg 50 for figures

\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Fig.†	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf	Typical mcd	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
333614CM	LUY3833H 	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	590	12	\$ .31	\$ .261	\$ .239	\$ .215
333569CM	LUY3333/A 	1	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	\$ .30 .26	.242	.177	.124
333593CM	LHY13533 	1	Yellow	Water clear	T1 3/4	0.197/5	0.35	1.00	0.10	1.7	1500	595	20	\$ .30 .26	.242	.225	.169
175695CM	LHY3833 	1	Yellow	Water clear	T1 3/4	0.197/5	0.30	1.07	0.08	2.1	1500	595	20	*	.115	.081	.073
333606CM	LHY3833 	1	Yellow	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	2700	595	12	\$ .31 .28	.252	.201	.151
197616CM	BVU-5E10H4E 	1	Red	Water clear	T1 3/4	0.197/5	0.30	1.05	0.08	1.8	1300	630	15	*	.174	.145	.139
334422CM	UT9C13-86-UDC2 	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	2700	630	18	.20	.196	.157	.109
334481CM	UT1813-86-UC9T-P27 	1	Ultra Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	2.2	3500	642	15	.30	.266	.239	.229
333438CM	UT1873-81-UR 	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.94	0.10	1.9	1000	660	10	.22	.21	.19	.142
333446CM	UT1873-81-UR-P22 	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.9	1200	660	25	*	.19	.119	.098
333518CM	LUR13233 	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2400	660	18	*	.19	.147	.11
333526CM	LUR3833 	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	2700	660	12	*	.16	.119	.107
333500CM	LHR3833/A 	1	Red	Water clear	T1 3/4	0.197/5	0.35	0.98	0.10	1.5	1500	660	12	.25	.214	.136	.102
333665CM	LEF3833 	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1700	620	12	\$ .30 .25	.205	.175	.172
333649CM	LHE3333 	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	1800	620	20	.30	.232	.177	.132
333657CM	LUE3333 	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	3400	620	20	.29	.237	.208	.178
333673CM	LUE3833 	1	Orange	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	1.7	5000	620	12	.30	.27	.177	.159
131895CM	TLSH180P 	1	Orange	Water clear	T1 3/4	0.197/5	0.39	0.80	0.10	2.1	10000	623	8	2.49	2.19	1.95	1.79
197683CM	BVT-5E10T4ER 	1	Orange Red	Water clear	T1 3/4	0.197/5	0.29	1.08	0.08	2.3	4650	634	15	.69	.59	.49	.39
334473CM	LDGL3333/H0 	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	3400	505	22	1.79	1.45	1.29	1.05
183214CM	MCDPG-503PC1 	1	Green	Water clear	T1 3/4	0.197/5	0.30	1.04	0.08	3.5	2200	515	10-15	2.95	2.65	2.39	2.15
183222CM	MCDL-513SBC4 	1	Blue	Water clear	T1 3/4	0.197/5	0.29	1.02	0.08	3.6	3000	470	25	3.25	2.95	2.65	2.39
334502CM	LWK3333 	1	White	Water clear	T1 3/4	0.197/5	0.34	0.98	0.10	3.5	5000	—	16	1.99	1.65	1.35	1.05
334772CM	UT18W3-86-UAF1-P22 	1	White	Water clear	T1 3/4	0.197/5	0.34	1.00	0.10	3.6	2900	—	25	2.35	2.19	1.97	1.77
183231CM	BVU-5C14WK4-B 	1	White	Water clear	T1 3/4	0.197/5	0.30	1.06	0.08	3.5	3600	—	10	\$ .27 .25	2.27	2.04	1.84
142893CM	BVU-5E1WK4-B 	1	White	Water clear	T1 3/4	0.197/5	0.34	0.79	0.08	3.5	3700	—	15	\$ .35 .31	2.95	2.48	2.11
320531CM	MCDL-5013UWC 	1	White	Water clear	T1 3/4	0.197/5	0.30	1.00	0.10	3.8	5500	—	15	1.25	1.01	.79	.71
197641CM	BVT-529T78E 	2	Yellow	Yellow transparent	Oval	0.170"/.220"	0.29	1.04	0.08	2.3	3600	592	70	.69	.62	.55	.49
404582CM	MCDL-1860UWC-15C	3	Ultra White	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	—	75	2.25	2.03	1.82	1.35
664341CM	MCDL-1870UWC-15C 	3	White	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	6500	—	40	2.25	2.03	1.82	1.35
664405CM	MCDL-1860UEC-TL 	3	Hi-Eff Red	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	625	75	1.39	1.26	1.13	.85
664413CM	MCDL-1870UEC-TL 	3	Hi-Eff Red	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	625	40	1.39	1.26	1.13	.85
664384CM	MCDL-1860UYC-TL 	3	Amber	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	2.0	3200	590	75	1.39	1.26	1.13	.85
664392CM	MCDL-1870UYC-TL 	3	Amber	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	2.0	4200	590	40	1.39	1.26	1.13	.85
404603CM	MCDL-1860UGC-TL	3	Green	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	3500	525	75	2.15	1.94	1.74	1.25
664376CM	MCDL-1870UGC-TL 	3	Green	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	7500	525	30	2.15	1.94	1.74	1.25
404591CM	MCDL-1860UBC-15C	3	Blue	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	75	2.15	1.94	1.74	1.25
664368CM	MCDL-1870UBC-15C 	3	Blue	Water clear	3mm dome	0.119/3	0.30	0.30	0.20	3.5	2500	470	40	2.15	1.94	1.74	1.25



**Quantity SAVE**

\* Prepackaged: order in increments of 10, 100 or 1000

## HLMP Series LEDs

Part No.	Product No.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
						A"	B"						1	10	100	1000
253278CM	HLMP-1301	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.9 @ 10	5.4 @ 10	635	60	*	\$ .121	\$ .11	\$ .082
253366CM	HLMP-1321	Red	Tinted	T1	0.119/3	0.19	1.00	0.10	1.9 @ 10	30 @ 10	635	45	*	.118	.11	.10
253551CM	HLMP-1340	Red	Clear	T1	0.119/3	0.19	1.00	0.10	1.9 @ 20	55 @ 10	635	45	.32	.134	.115	.086
253690CM	HLMP-1700	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.7 @ 2	2.1 @ 2	635	50	*	.13	.104	.078
253711CM	HLMP-K105	Red	Clear	T1	0.119/3	0.19	1.00	0.10	2.2 @ 20	65 @ 20	645	45	*	.188	.15	.086
253729CM	HLMP-K150	Red	Diffused	T1	0.119/3	0.19	1.00	0.10	1.8 @ 1	2.0 @ 1	645	60	*	.168	.152	.114
253631CM	HLMP-1503	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.1 @ 10	1.0 @ 10	565	60	*	.113	.101	.091
253649CM	HLMP-1521	Green	Tinted	T1	0.119/3	0.19	1.00	0.10	2.7 @ 10	6.7 @ 10	565	45	*	.122	.111	.083
253657CM	HLMP-1523	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.1 @ 10	7.0 @ 10	565	60	.32	.28	.196	.147
253665CM	HLMP-1540	Green	Clear	T1	0.119/3	0.19	1.00	0.10	45 @ 20	2.2 @ 20	565	45	.26	.227	.191	.143
253681CM	HLMP-1790	Green	Diffused	T1	0.119/3	0.19	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	.21	.145	.116	.087
253673CM	HLMP-1719	Yellow	Diffused	T1	0.119/3	0.19	1.00	0.10	2.5 @ 2	2.1 @ 2	583	50	*	.128	.115	.086
253614CM	HLMP-1401	Yellow	Diffused	T1	0.119/3	0.19	1.00	0.10	2.0 @ 10	2.2 @ 10	583	60	*	.123	.112	.098
253622CM	HLMP-1440	Yellow	Clear	T1	0.119/3	0.19	1.00	0.10	2.1 @ 20	45 @ 20	583	45	*	.122	.105	.076
253745CM	HLMP-3300	Red	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.2 @ 10	3.5 @ 10	635	65	*	.15	.104	.078
253753CM	HLMP-3301	Red	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.4 @ 10	5.4 @ 10	635	60	*	.15	.104	.093
253817CM	HLMP-4700	Red	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	1.7 @ 2	2.3 @ 2	626	50	*	.19	.152	.085
11797CM	QLMP-D141	Red	Water clear	T1 ¾	0.197/5	0.29	1.05	0.07	2.0 @ 20	350 @ 20	660	—	*	.158	.112	.073
203553CM	HLMP-4100	Orange Red	Water clear	T1 ¾	0.197/5	0.33	1.07	0.08	2.1 @ 20	600 @ 20	615	8	*	.062	.056	.05
253770CM	HLMP-3507	Green	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.1 @ 10	4.2 @ 10	565	60	*	.119	.11	.082
253809CM	HLMP-3950	Green	Clear	T1 ¾	0.197/5	0.36	0.90	0.10	1.5 @ 20	265 @ 20	565	24	*	.168	.152	.085
253833CM	HLMP-4740	Green	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.2 @ 2	2.3 @ 2	565	50	*	.19	.152	.114
253761CM	HLMP-3401	Yellow	Diffused	T1 ¾	0.197/5	0.36	1.00	0.10	2.0 @ 10	5.7 @ 10	583	60	*	.136	.124	.093
253796CM	HLMP-3850	Yellow	Clear	T1 ¾	0.197/5	0.36	0.90	0.10	2.1 @ 20	140 @ 20	583	24	.27	.253	.179	.161



## LEDTECH Standard and High-Output LEDs

• Typical DC forward current 20mA

Ledtech is a QS9000 and ISO-9000 Certified Company

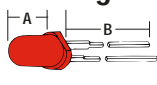


Fig. 1

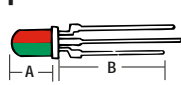


Fig. 2

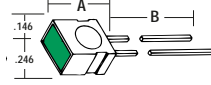


Fig. 3

152805CM

151415CM

\* Minimum order 10 pieces

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter (in./mm)	Dimensions		Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Viewing Angle	Pricing			
							A"	B"						1	10	100	1000
156953CM	LT0373-41	1	Red Super Bright	Water clear	T1	0.119/3	0.21	1.07	0.08	1.7 @ 20	600 @ 20	660	46	\$ .24	\$ .22	\$ .17	\$ .14
156946CM	LT0362-25-D61	2	Red/Green	White diff. bi-color tri-state	T1	0.119/3	0.16	0.87	0.08	2.1 @ 20	2.7/13.3 @ 20	700/567	50	.29	.25	.19	.15
152750CM	LT0344R-41	1	Orange Red	Red clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	52.9 @ 10	635	36	*	.19	.16	.12
152784CM	LT0341R-41	1	Orange Red	Red diffused	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	15.5 @ 10	635	56	*	.17	.15	.12
152768CM	LT0324-41	1	Green	Green clear	T1	0.119/3	0.20	0.89	0.10	2.1 @ 20	45 @ 20	567	36	*	.077	.059	.057
156929CM	LT0321-41-HE	1	Green	Green diffused	T1	0.118/3	0.16	0.88	0.10	2.1 @ 20	32 @ 20	567	56	*	.18	.11	.10
156937CM	LT0331-41	1	Yellow	Yellow diffused	T1	0.119/3	0.20	0.95	0.10	2.1 @ 20	11 @ 20	585	56	*	.13	.086	.065
136493CM	LT0333-41*	1	Yellow	Water clear	T1	0.119/3	0.20	0.95	0.10	2.3 @ 20	38 @ 20	589	36	*	.14	.096	.072
215597CM	LT2K33-81-UC9T	1	Yellow	Water clear	T1 3/4	0.197/5	0.31	0.89	0.10	2.2 @ 20	5000 @ 20	592	5	\$ .59	.49	.468	.417
261622CM	LT1873-81-UR-P22	1	Red	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9 @ 20	1200 @ 20	660	25	.22	.20	.19	.11
242843CM	LT1811-81	1	Red	Red diffused	T1 3/4	0.197/5	0.30	0.88	0.10	2.1 @ 20	4.1 @ 20	700	44	*	.12	.10	.06
152805CM	LT1873-81-UR	1	Red Ultra Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	1.9 @ 20	2000 @ 20	660	12	*	.168	.134	.10
153139CM	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	0.197/5	0.36	0.90	0.10	2.1 @ 20	2500 @ 20	621	5	.49	.44	.39	.35
302033CM	LT1814-81	1	Orange	Red diffused	T1 3/4	0.197/5	0.34	0.88	0.10	2.1 @ 20	23.1 @ 20	635	22	*	.094	.071	.054
152856CM	LT1841R-81	1	Orange Red	Red diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	23 @ 20	635	44	*	.17	.15	.13
156961CM	LT1823-81-HE	1	Green	Water clear	T1 3/4	0.197/5	0.34	0.87	0.10	2.1 @ 20	500 @ 20	567	19	*	.17	.15	.12
152821CM	LT1821-81-HE	1	Green	Green diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	96 @ 20	567	41	*	.16	.12	.09
175687CM	LT0524-81	1	Green	Green transparent	T1 3/4	0.197/5	0.24	1.07	0.07	2.1 @ 20	44 @ 20	567	30	*	.08	.072	.065
152792CM	LT1833-81-M1	1	Ylw Super Bright	Water clear	T1 3/4	0.197/5	0.34	0.89	0.10	2.1 @ 20	1040 @ 20	593	19	*	.17	.153	.137
152830CM	LT1831-81-UR	1	Ylw Ultra Bright	Yellow diffused	T1 3/4	0.197/5	0.34	0.89	0.10	2.0 @ 20	424 @ 20	593	41	\$ .26	.22	.204	.17
34850CM	LT7341R-81†	3	Orange Red	Red diffused rectangular	3.5 x 6	—	0.27	0.85	0.07	2.0 @ 20	5.2 @ 20	635	60	.29	.242	.196	.152

### White Diffused Backlight

151415CM	LT1F24-A2-S1	—	Green	Backlight, diffused	2.05"L x 0.78"H x 0.09"T	8-pin	4.2 @ 20	140 @ 20	567	—	\$2.95	\$2.66	\$2.12	\$1.59
250353CM	LT1F24-A2-S8	—	Green	Backlight, diffused	1.56"L x 0.98"H x 0.15"T	8-pin	4.2 @ 20	24.8 @ 20	567	—	2.95	2.65	2.39	1.79

\* 10 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 55

† For Mounting Hardware, below

## LED Cabinet Kit and LED Mounting Hardware



### Design Engineer's

### 139 Piece LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.

- 139 piece hardware kit for T1 and T1 3/4 LEDs
- Clear plastic case with dividers
- Size: 8.5"L x 4.5"W x 1.5"H • Weight: 0.4 lbs.



Includes: LED panel lenses and mounts	• Colors: clear, red, yellow, green and blue • Shapes: round, square • Retainers
Pre-wired solderless LED interconnection	• Varied lengths • Standard header pin connector termination • Crimp-type removable connector pins
LED PCB mounts, sockets and standoffs	• Vertical and horizontal mount • Various height LED standoffs • SMT-type connectors • Through-hole type connectors • Resistor-type connectors

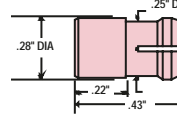
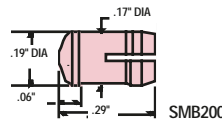
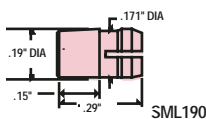
Part No.	Description	Price
418731CM	Engineer's LED hardware kit	\$25.09

Place your order by 6PM EST for same business-day shipment.



### T1 & T1 3/4 Ciplite® LED Lens Mounts

Standard and low profile, provide 180° viewing angle. Colors: red, green, amber, yellow and clear. Hole size for T1, 0.171" on 0.250" centers. Panel thickness T1: SML190, 0.031-0.062"; SMB200, 0.062-0.125". Hole size for T1 & T1-3/4, 0.250" on 0.375" centers. Panel thickness, CLF280, 0.062-0.125". CLB300, 0.031-0.0250".



Part No.	Type	Size	Color	1	10	100	1000
417818CM	SML190RTP	T1	Red	.26	.226	.166	.14
417826CM	SML190ATP	T1	Amber	.26	.226	.166	.14
417834CM	SML190GTP	T1	Green	.26	.226	.166	.14
417842CM	SML190YTP	T1	Yellow	.26	.226	.162	.14
417851CM	SML190CTP	T1	Clear	.26	.226	.166	.14
417869CM	SMB200RTP	T1 3/4	Red	.26	.226	.166	.14
417877CM	SMB200ATP	T1 3/4	Amber	.26	.226	.167	.14
417885CM	SMB200GTP	T1 3/4	Green	.26	.226	.167	.14
417893CM	SMB200YTP	T1 3/4	Yellow	.26	.226	.166	.14
417906CM	SMB200CTP	T1 3/4	Clear	.26	.226	.167	.14
29612CM	CLF280RTP	T1 3/4	Red	.28	.247	.219	.188
417914CM	CLF280ATP	T1 3/4	Amber	.28	.244	.185	.157
417922CM	CLF280GTP	T1 3/4	Green	.28	.244	.185	.157
417931CM	CLF280YTP	T1 3/4	Yellow	.28	.244	.181	.157
14277CM	CLF280CTP	T1 3/4	Clear	.28	.237	.216	.157
417949CM	CLB300RTP	T1 3/4	Red	.28	.244	.185	.157
417957CM	CLB300ATP	T1 3/4	Amber	.28	.244	.185	.157
417965CM	CLB300GTP	T1 3/4	Green	.28	.244	.185	.157
417973CM	CLB300YTP	T1 3/4	Yellow	.28	.244	.181	.157
124927CM	CLB300CTP	T1 3/4	Clear	.25	.19	.16	.14

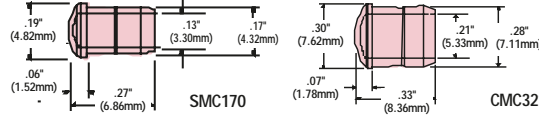


## T1 & T1<sup>3/4</sup> Cliplite® Panel Lens for PCB Mounted LEDs

T1 and T1-3/4 size low-profile panel lenses provide 180° viewing angle. Type SMC170 for T1 LEDs. Hole size: 0.171" on 0.250" centers. CMC321 for T1-3/4 LEDs. Hole size: 0.283" on 0.375" centers. Use retaining ring RNG165 for SMC170 and RNG268 for CMC321/CMC322. RNG268: 0.36" Dia., 0.08" L.

- RNG165: 0.24" Dia., 0.50" L
- RNG132: 0.24" Dia., 0.08" L
- CMC285: 0.21" Dia., 0.285" L
- SMC130: 0.14" Dia., 0.24" L

\* Prepackaged: order in increments of 10, 100 or 1000

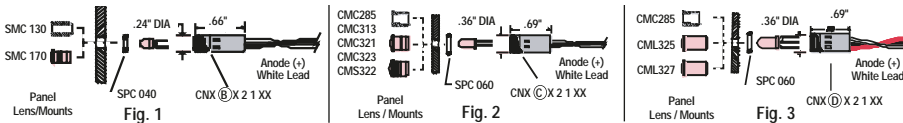


Part No.	Type	Size	Color	1	10	100	1000
417691CM	SMC170RTP	T1	Red	\$.26	\$.226	\$.166	\$.14
417703CM	SMC170ATP	T1	Amber	.26	.226	.166	.14
417711CM	SMC170GTP	T1	Green	.26	.226	.166	.14
417720CM	SMC170YTP	T1	Yellow	.26	.226	.166	.14
143183CM	SMC170CTP	T1	Clear	.26	.226	.20	.14
417738CM	CMC321RTP	T1 <sup>3/4</sup>	Red	.28	.244	.185	.157
417746CM	CMC321ATP	T1 <sup>3/4</sup>	Amber	.28	.244	.185	.157
417754CM	CMC321GTP	T1 <sup>3/4</sup>	Green	.28	.244	.185	.157
417762CM	CMC321YTP	T1 <sup>3/4</sup>	Yellow	.28	.244	.185	.157
417771CM	CML325CTP	T1 <sup>3/4</sup>	Clear	.28	.254	.195	.164
143132CM	CMC321CTP	T1 <sup>3/4</sup>	Clear	.25	.22	.18	.14
417797CM	SMC130CTP	T1	Panel mount clip	*	.169	.127	.107
417800CM	CMC285CTP	T1 <sup>3/4</sup>	Panel mount clip	.27	.235	.166	.14
417631CM	RNG132	—	Ring for SMC130	*	.075	.059	.049
417789CM	RNG165	—	Ring for SMC285	*	.075	.059	.049
417640CM	RNG234	—	Ring for CMC321	*	.074	.067	.049



## Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB. 3mm type CNXBE and CNXBX connector assemblies use SMC170 lens or SMC130 mount; 5mm type CNXCE and CNXCX assemblies use a CMC321 lens or CMC285 mount. Thin panels (0.032") use ring spacer type SPC040 for 3mm and type SPC060 for 5mm assemblies. CNXBE, CNXCE and CNXDF cables are supplied with panel connector and bare wire leads. CNXV and H series locking headers provide positive locking between PCB and cable assembly.



Part No.	Type	Fig.	LED Type	Termination	Length	1	10	100	1000
417375CM	CNXBE2104	1	T1 (3mm) Bi-lead	2 position connector	4"	\$1.99	\$1.69	\$1.11	\$1.00
143087CM	CNXBE2108	1	T1 (3mm) Bi-lead	2 position connector	8"	1.25	1.13	1.05	.99
417383CM	CNXBE2112	1	T1 (3mm) Bi-lead	2 position connector	12"	2.15	1.81	1.20	1.08
417391CM	CNXBE2124	1	T1 (3mm) Bi-lead	2 position connector	24"	2.45	2.07	1.37	1.33
417404CM	CNXBX2104	1	T1 (3mm) Bi-lead	Stripped leads	4"	1.21	1.03	.75	.68
417412CM	CNXBX2108	1	T1 (3mm) Bi-lead	Stripped leads	8"	1.35	1.14	.75	.68
417421CM	CNXBX2112	1	T1 (3mm) Bi-lead	Stripped leads	12"	1.49	1.26	.84	.76
417439CM	CNXBX2118	1	T1 (3mm) Bi-lead	Stripped leads	18"	1.65	1.38	.92	.71
417447CM	CNXBX2124	1	T1 (3mm) Bi-lead	Stripped leads	24"	1.79	1.52	1.00	.90
417455CM	CNXCE2104	2	T1 <sup>3/4</sup> (5mm) Bi-lead	2 position connector	4"	1.99	1.69	1.11	1.00
143036CM	CNXCE2108	2	T1 <sup>3/4</sup> (5mm) Bi-lead	2 position connector	8"	1.29	1.25	1.19	1.15
417463CM	CNXCE2112	2	T1 <sup>3/4</sup> (5mm) Bi-lead	2 position connector	12"	2.15	1.81	1.20	1.08
143052CM	CNXCE2118	2	T1 <sup>3/4</sup> (5mm) Bi-lead	2 position connector	18"	1.79	1.58	1.30	1.25
417471CM	CNXCE2124	2	T1 <sup>3/4</sup> (5mm) Bi-lead	2 position connector	24"	2.45	2.07	1.37	1.23
417480CM	CNXCX2104	2	T1 <sup>3/4</sup> (5mm) Bi-lead	Stripped leads	4"	1.35	1.28	.75	.68
417498CM	CNXCX2108	2	T1 <sup>3/4</sup> (5mm) Bi-lead	Stripped leads	8"	1.35	1.14	.75	.59
417501CM	CNXCX2112	2	T1 <sup>3/4</sup> (5mm) Bi-lead	Stripped leads	12"	1.49	1.26	.84	.65
417519CM	CNXCX2118	2	T1 <sup>3/4</sup> (5mm) Bi-lead	Stripped leads	18"	1.65	1.38	.92	.83
417527CM	CNXCX2124	2	T1 <sup>3/4</sup> (5mm) Bi-lead	Stripped leads	24"	1.79	1.61	1.01	.90
417535CM	CNXDF2604	3	T1 <sup>3/4</sup> (5mm) Tri-lead	3 position connector	4"	2.85	2.40	1.58	1.42
417543CM	CNXDF2608	3	T1 <sup>3/4</sup> (5mm) Tri-lead	3 position connector	8"	2.85	2.40	1.58	1.42
417551CM	CNXDF2612	3	T1 <sup>3/4</sup> (5mm) Tri-lead	3 position connector	12"	3.15	2.64	1.76	1.58
417560CM	CNXDF2618	3	T1 <sup>3/4</sup> (5mm) Tri-lead	3 position connector	18"	3.39	2.85	1.89	1.70
417578CM	CNXDF2624	3	T1 <sup>3/4</sup> (5mm) Tri-lead	3 position connector	24"	3.59	3.02	2.00	1.80
417586CM	CNXDX2604	3	T1 <sup>3/4</sup> (5mm) Tri-lead	Stripped leads	4"	1.85	1.55	1.02	.80
417594CM	CNXDX2608	3	T1 <sup>3/4</sup> (5mm) Tri-lead	Stripped leads	8"	1.85	1.52	1.02	.92
417607CM	CNXDX2612	3	T1 <sup>3/4</sup> (5mm) Tri-lead	Stripped leads	12"	2.15	1.81	1.20	1.08
417615CM	CNXDX2618	3	T1 <sup>3/4</sup> (5mm) Tri-lead	Stripped leads	18"	2.39	2.02	1.34	1.20
417623CM	CNXDX2624	3	T1 <sup>3/4</sup> (5mm) Tri-lead	Stripped leads	24"	2.59	2.19	1.44	1.30

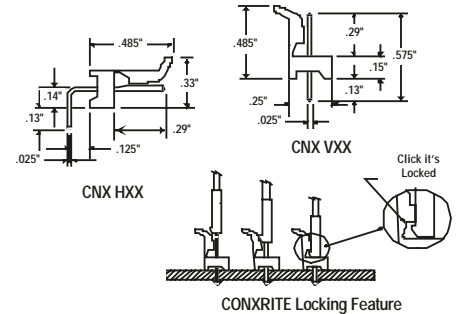
RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Conxrite Locking Headers for Use with Cable Assemblies



CNXV and H series locking headers provide positive locking between PCB and cable assembly.

- Mounting P/N 417658CM: vertical 2-pin
- Mounting P/N 417666CM: vertical 3-pin
- Mounting P/N 417674CM: horizontal 2-pin
- Mounting P/N 417682CM: horizontal 3-pin



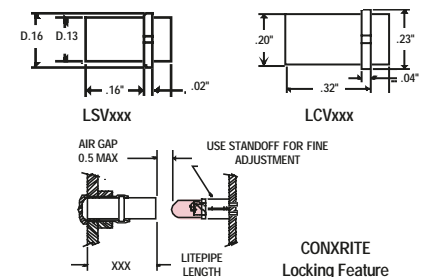
Part No.	Type	1	10	100	1000
417658CM	CNXV02NTP	\$.27	\$.251	\$.229	\$.163
417666CM	CNXV03NTP	.42	.376	.338	.304
417674CM	CNXH02NTP	.34	.332	.263	.219
417682CM	CNXH03NTP	.33	.297	.263	.219

## Litepipes for PCB-Mounted LEDs



Designed to transmit light from PCB mounted LED to panel display. Cliplite lenses provide the mounting for Litepipes and produce 180° of viewing angle. Use SMB200 for LSV (3mm) litepipe and CLB300 for LCV (5mm) litepipe, see pg 52. For added security use retaining rings RNG190 (3mm) and RNG268 (5mm).

- Mounting color: clear



Part No.	Type	1	10	100	1000
417981CM	LSV020CTP	\$.28	\$.254	\$.224	\$.189
417990CM	LSV040CTP	.28	.254	.224	.189
418001CM	LSV060CTP	.28	.254	.224	.189
418010CM	LSV080CTP	.28	.254	.224	.189
418028CM	LSV100CTP	.28	.254	.224	.189
418036CM	LSV120CTP	.28	.254	.224	.189
418044CM	LCV036CTP	.28	.254	.224	.189
418052CM	LCV056CTP	.28	.254	.224	.189
418061CM	LCV076CTP	.28	.254	.224	.189
418079CM	LCV096CTP	.28	.254	.224	.189
418087CM	LCV116CTP	.28	.254	.224	.189
418095CM	LCV136CTP	.28	.254	.224	.189

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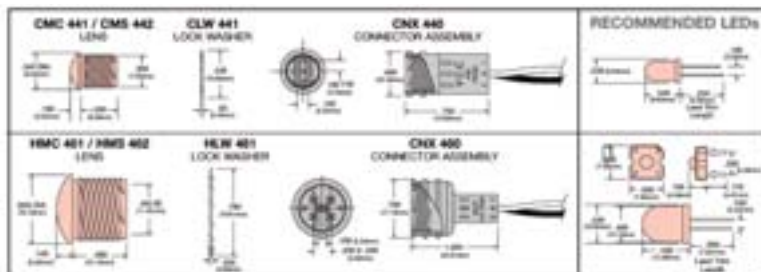


## Cable Assemblies for 5mm and 10mm LED Lights

### Features:

- Enhances LED apparent brightness as well as the viewing angle to 180°
- Sealed version exceeds NEMA 4 for dust, water and ice
- Tested for temperature cycling, UV, solar shock and vibration
- Plug and play approach simplifies cable installation

NEW



### Pre-Wired Solderless LED holders – Twist Fit

#### 5mm Bi-Lead LED 24 AWG 2-wire/0.025" Header Post

Part No.	Product No.	Length (in.)	1	10	100	500
673740CM	CNX440-E02-4-1-04	4	\$2.79	\$1.79	\$1.74	\$1.52
673758CM	CNX440-E02-4-1-08	8	2.79	1.99	1.74	1.52
673782CM	CNX440-E02-4-1-12	12	3.05	1.94	1.88	1.60
673791CM	CNX440-E02-4-1-18	18	3.15	2.05	1.98	1.68
673803CM	CNX440-E02-4-1-24	24	3.25	2.13	2.06	1.76

#### 5mm Bi-Lead LED 24 AWG 2-Wire/Stripped End

673811CM	CNX440-X02-4-1-04	4	\$1.75	\$1.17	\$1.10	\$0.76
673820CM	CNX440-X02-4-1-08	8	1.75	1.14	1.11	.76
673838CM	CNX440-X02-4-1-12	12	1.85	1.27	1.24	.83
673846CM	CNX440-X02-4-1-18	18	1.95	1.36	1.32	1.11
673854CM	CNX440-X02-4-1-24	24	2.05	1.48	1.43	1.19

#### 10mm Bi-Lead LED 24 AWG 2-wire/0.025" Header Post

673862CM	CNX460-E02-4-1-04	4	\$4.15	\$2.65	\$2.57	\$2.25
673889CM	CNX460-E02-4-1-08	8	4.15	2.65	2.57	2.25
673897CM	CNX460-E02-4-1-12	12	4.25	2.80	2.72	2.33
673942CM	CNX460-E02-4-1-18	18	4.29	2.88	2.79	2.41
673951CM	CNX460-E02-4-1-24	24	4.39	2.98	2.89	2.49

#### 10mm Bi-Lead LED 24 AWG 2-Wire/Stripped End

673969CM	CNX460-X02-4-1-04	4	\$3.15	\$1.99	\$1.93	\$1.68
673977CM	CNX460-X02-4-1-08	8	3.15	1.99	1.93	1.68
673985CM	CNX460-X02-4-1-12	12	3.25	2.13	2.06	1.76
674005CM	CNX460-X02-4-1-18	18	3.35	2.23	2.16	1.84
674013CM	CNX460-X02-4-1-24	24	3.45	2.31	2.24	1.92



## CLIPLETE® Moisture Sealed Litepipe Assemblies

NEW

Designed to transmit light from PCB mounted LED (3mm and 5mm) and surface mount LEDs to the front panel display. These litepipes increase the apparent brightness of an LED and disperse the viewing angle of up to 180°. The litepipe assembly meets NEMA-3 for moisture and dust. Because there is no direct connection between the litepipe and LED, the circuit board can be installed or removed without disturbing the panel.



- Mounts in 0.281" holes with 3/8" centers on 1/32" to 1/8" panel thickness

Part No.	Product No.	Length (in.)	Color	1	10	100	500
675761CM	LMS033CTP	0.33	Clear	\$1.21	\$1.07	\$0.99	\$0.94
675770CM	LMS033RTP	0.33	Red	1.23	1.07	.99	.94
675788CM	LMS033GTP	0.33	Green	1.23	1.07	.99	.94
675796CM	LMS053CTP	0.53	Clear	1.23	1.07	.99	.94
675809CM	LMS053RTP	0.53	Red	1.23	1.07	.99	.94
675817CM	LMS053GTP	0.53	Green	1.21	1.07	.99	.94
675825CM	LMS133CTP	1.33	Clear	1.21	1.07	.99	.94
675833CM	LMS133RTP	1.33	Red	1.21	1.07	.99	.94
675841CM	LMS133GTP	1.33	Green	1.21	1.07	.99	.94

### Lens for Twist Style LED Holders

Includes: Lockwasher and retaining ring

#### 5mm (T1 3/4) Standard Lens

Part No.	Product No.	Color	1	10	100	500
674030CM	CMC441RTP	Red	\$.75	\$.54	\$.52	\$.384
674048CM	CMC441CTP	Clear	.75	.54	.52	.384
674056CM	CMC441GTP	Green	.75	.54	.52	.384
677610CM	CMC441BTP	Blue	.75	.54	.52	.384
674064CM	CMC441YTP	Yellow	.75	.54	.52	.384
674072CM	CMC441ATP	Amber	.75	.54	.52	.384

#### 5mm (T1 3/4) Water Tight Lens

674081CM	CMS442RTP	Red	\$1.47	\$.97	\$.94	\$.65
674099CM	CMS442CTP	Clear	1.47	.97	.94	.65
677636CM	CMS442GTP	Green	1.47	.97	.94	.65
674101CM	CMS442GTP	Green	1.47	.97	.94	.65
674110CM	CMS442YTP	Yellow	1.47	.97	.94	.65
674128CM	CMS442BTP	Blue	1.47	.97	.94	.65

#### 10mm Standard Lens

674136CM	HMC461CTP	Clear	\$1.17	\$.79	\$.76	\$.52
674144CM	HMC461RTP	Red	1.17	.79	.76	.52
674179CM	HMC461GTP	Green	1.17	.79	.76	.52
674187CM	HMC461ATP	Amber	1.17	.79	.76	.52
674195CM	HMC461YTP	Yellow	1.17	.79	.76	.52
674208CM	HMC461BTP	Blue	1.17	.79	.76	.52

#### 10mm Water Tight Lens

674216CM	HMS462CTP	Clear	\$1.85	\$1.22	\$1.19	\$.83
674224CM	HMS462RTP	Red	1.85	1.22	1.19	.83
674232CM	HMS462GTP	Green	1.85	1.22	1.19	.83
674241CM	HMS462ATP	Amber	1.85	1.22	1.19	.83
674259CM	HMS462YTP	Yellow	1.85	1.22	1.19	.83
674267CM	HMS462BTP	Blue	1.89	1.22	1.19	.83

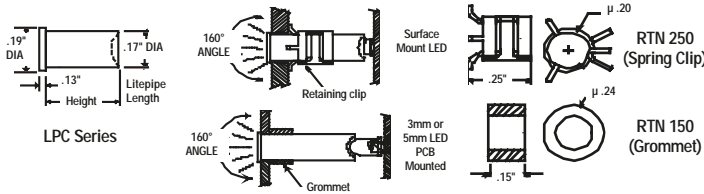
www.Jameco.com



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## Litepipes For Standard and Surface-Mount LEDs

Designed to produce 160° viewing angle of transmitted light from PCB mounted LEDs. Accommodates both 3mm and surface mount LEDs. Litepipes are able to display single color devices or mix multi-colored LEDs into a single color. Sizes from 0.200" (5.08mm) to 2.00" (50.80mm). Use RTN grommet for sizes 0.20" thru 0.50" and RTN spring clip for sizes 0.50" to 2.00" (50.80mm).



\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Type	Mounting Height	1	10	100	1000
418108CM	LPC020CTP	0.200"	\$.35	\$.32	\$.244	\$.205
418116CM	LPC022CTP	0.220"	.35	.32	.244	.205
418124CM	LPC024CTP	0.240"	.35	.32	.244	.205
418132CM	LPC026CTP	0.260"	.35	.32	.244	.205
418141CM	LPC028CTP	0.280"	.35	.32	.244	.205
418159CM	LPC030CTP	0.300"	.35	.32	.244	.205
418167CM	LPC032CTP	0.320"	.35	.32	.244	.205
418175CM	LPC034CTP	0.340"	.35	.32	.244	.205
418183CM	LPC036CTP	0.360"	.35	.32	.244	.205
418191CM	LPC038CTP	0.380"	.35	.32	.244	.205
418204CM	LPC040CTP	0.400"	.35	.32	.244	.205
418212CM	LPC042CTP	0.420"	.35	.32	.244	.205
418221CM	LPC044CTP	0.440"	.35	.32	.244	.205
418239CM	LPC046CTP	0.460"	.35	.32	.244	.205
418247CM	LPC048CTP	0.480"	.35	.32	.244	.205
418255CM	LPC050CTP	0.500"	.35	.32	.244	.205
418263CM	LPC056CTP	0.56"	.35	.32	.244	.205
418280CM	LPC066CTP	0.66"	.35	.32	.244	.205
418301CM	LPC076CTP	0.76"	.35	.32	.244	.205
418327CM	LPC086CTP	0.86"	.35	.32	.244	.205
418271CM	LPC060CTP	0.600"	.35	.32	.244	.205
418298CM	LPC070CTP	0.700"	.35	.32	.244	.205
418319CM	LPC080CTP	0.800"	.35	.32	.244	.205
418335CM	LPC090CTP	0.900"	.35	.32	.244	.205
418343CM	LPC096CTP	0.960"	.35	.32	.244	.205
418351CM	LPC100CTP	1.00"	.40	.357	.263	.222
418360CM	LPC125CTP	1.25"	.40	.357	.263	.222
418378CM	LPC150CTP	1.50"	.40	.357	.263	.222
418386CM	LPC160CTP	1.60"	.40	.357	.263	.222
418394CM	LPC200CTP	2.00"	.40	.357	.263	.222
418407CM	RTN150	Grommet	*	.074	.059	.049
418415CM	RTN250	Spring clip	*	.093	.059	.056

## LED Mounting Hardware

- P/N 95521CM: for use with P/N 94545CM and 34850CM, pg 49
- Color: black



Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Description	Mounting Hole Dia.	Panel Thickness	Pricing		
					10	100	1000
95513CM	LMH100	T1 snap-in	.185"	Up to .070"	\$.08	\$.07	\$.04
23077CM	LMH200	T1 3/4 ring & clip	.257"	Up to .125"	.15	.135	.12
95521CM	LMH250	Rect. snap-in	.306" x .202"	Up to .092"	.20	.15	.127
379815CM	—	10mm snap-in	.539"	Up to .125"	.35	.315	.28

## Electronic Pocket Reference

Third Edition McGraw-Hill Publishing

A pocket reference manual that provides definitions, passive component equations and color coding, parameters of standard semi-conductors, linear circuits, filters, power supply and regulation, electronic measurement and mathematical tables and formulas. (529 pages, 2000)

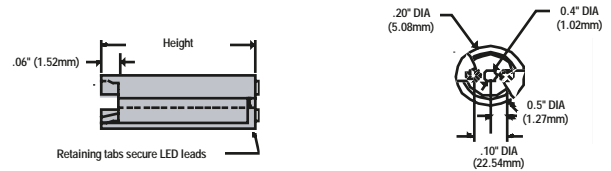
- Size: 4.0" x 6.0"
- Weight: 0.9 lbs.

Part No.	Description	Price
174481CM	Electronics Pocket Reference	\$26.95



## PCB Standoffs for 2 and 3-Lead Components

Designed for PCB mounting of multi-lead devices (e.g. LEDs, IR emitter/detector lamps, resistors, capacitors and diodes). Provide lead separation, retention and lateral stability, and height control. Standoffs vary in height from 0.12" to 1.00". Standoffs are UL94V0 material.



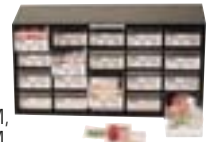
\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Type	Mounting Height	10	100	1000
418423CM	STD120BLK	0.120"	\$.093	\$.068	\$.058
418431CM	STD140BLK	0.140"	.093	.068	.058
418440CM	STD160BLK	0.160"	.093	.068	.058
418458CM	STD180BLK	0.180"	.093	.068	.058
418466CM	STD200BLK	0.200"	.093	.068	.058
418474CM	STD220BLK	0.220"	.093	.068	.058
418482CM	STD240BLK	0.240"	.093	.068	.058
418491CM	STD250BLK	0.250"	.089	.068	.058
418503CM	STD260BLK	0.260"	.093	.068	.058
418511CM	STD280BLK	0.280"	.093	.068	.058
418520CM	STD300BLK	0.300"	.093	.068	.058
418538CM	STD320BLK	0.320"	.093	.068	.058
418546CM	STD340BLK	0.340"	.093	.068	.058
418554CM	STD360BLK	0.360"	.093	.068	.058
418562CM	STD380BLK	0.380"	.093	.068	.058
418571CM	STD400BLK	0.400"	.093	.068	.058
418589CM	STD420BLK	0.420"	.093	.068	.058
418597CM	STD440BLK	0.440"	.093	.068	.058
418600CM	STD460BLK	0.460"	.093	.068	.058
418618CM	STD480BLK	0.480"	.093	.068	.058
418626CM	STD500BLK	0.500"	.093	.068	.058
418634CM	STD550BLK	0.550"	.093	.068	.058
418642CM	STD600BLK	0.600"	.093	.068	.058
418651CM	STD650BLK	0.650"	.093	.068	.058
418669CM	STD700BLK	0.700"	.093	.068	.058
418677CM	STD750BLK	0.750"	.093	.068	.058
418685CM	STD800BLK	0.800"	.093	.068	.058
418693CM	STD850BLK	0.850"	.093	.068	.058
418706CM	STD900BLK	0.900"	.093	.068	.058
418714CM	STD950BLK	0.950"	.093	.068	.058
418722CM	STD1.0BLK	1.000"	.093	.068	.058

## LEDs & LED Mounting Hardware Kit

Includes:

- 20-drawer component cabinet (319599CM), 20 clear plastic drawers (319601CM), 20 clear dividers (319610CM), pg 314 and labels
- 10 ea. standard-output LEDs (34657CM, 114673CM, 114681CM, 34606CM, 175695CM, 34825CM, 34690CM, 11359CM, 34761CM, 34711CM, 104248CM, 104256CM, 34673CM), pg 49 and 136493CM, pg 52
- 10 ea. HLMP series LEDs (11797CM), pg 51
- 10 ea. LED lens mount (14277CM), pg 52
- 100 ea. LEDs (94529CM, 135597CM), pg 50
- 100 ea. LED mounting hardware (95513CM, 23077CM), pg 55



SAVE \$24

Part No.	Description	Wt. (lbs.)	1	10
84996CM	560 piece kit	5.0	\$66.95	\$60.25

We're Listening to Your Requests

Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com) with suggestions for products you'd like to see in future catalogs.

# 7-Segment LED Displays



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

## JAMECO ValuePro 7-Segment LED Displays

The general advantages of LED displays compared to incandescent types include:

- Lower power consumption
- Longer lifetime (average of more than 300,000 hours)
- Compact size suitable for instrumentation and graphic representations

### Soldering:

- Soldering bath: not more than 5 seconds @ 260°C
- Soldering iron: not more than 3 seconds @ 300°C under 30W



Quantity SAVE

Single Digit RHDP

Single Digit RHDP/LHDP

2-Digit RHDP



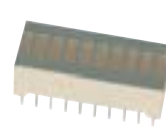
3-Digit RHDP



4x7 Hex Character



Dot Matrix



10-Bargraph



202526CM pg 57

5"

Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	Pricing			
										1	10	100	1000
320469CM	UA3031-16-EWRN	0.300"	Yellow	CA	11	3.0 @ 20	2.3 @ 10	585	LHDP/RHDP	\$ .78	\$ .70	\$ .56	\$ .95
334983CM	UA3051-12	0.300"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.78	.69	.61	.478
395639CM	UA3051-16-EWRS	0.300"	Red	CA	11	3.0 @ 20	0.8 @ 10	700	LHDP/RHDP	1.09	.98	.96	.81
334799CM	UC3051-11	0.300"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	.85	.76	.60	.45
335003CM	UA3041R-12	0.300"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.74	.66	.59	.53
334801CM	UC3041R-11	0.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.68	.60	.54	.49
334810CM	UC3041R-20	0.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.94	.85	.69	.52
335011CM	UA3041-12	0.300"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.74	.66	.60	.54
335257CM	UC3671-11-M1-EWAK	0.360"	Super Bright Red	CC	10	1.7 @ 20	6.0 @ 10	643	RHDP	1.02	.93	.74	.55
334836CM	UA4071-11-UR EWAK	0.400"	Red	CA	10	1.9 @ 20	25.6 @ 10	660	RHDP	.96	.86	.78	.59
335020CM	UA4051-11	0.400"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	.69	.62	.432	.41
334844CM	UC4041R-11	0.400"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.77	.73	.56	.44
334828CM	UC4041-11	0.400"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.77	.61	.46
335046CM	UA4041-11	0.400"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.77	.61	.454
335054CM	UN4043-13 EWRS	0.400"	Orange	3-digit CA	12	2.1 @ 20	3.3 @ 10	635	RHDP	<del>\$2.25</del> 1.95	1.71	1.37	1.03
334852CM	UC4031-11	0.400"	Yellow	CC	10	2.1 @ 20	2.3 @ 10	585	RHDP	.88	.79	.63	.473
335038CM	UA4021-11	0.400"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.88	.79	.71	.53
335214CM	UC5442-11 EWRS	0.540"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	<del>\$2.95</del> 2.35	2.03	1.85	1.39
335222CM	UA5422-11 EWRS	0.540"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	<del>\$2.65</del> 1.79	1.61	1.28	.96
334887CM	UC5651-11	0.560"	Red	CC	10	2.1 @ 20	0.8 @ 10	700	RHDP	<del>\$1.04</del> .91	.81	.65	.49
334932CM	UC5652-11	0.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.05	.99	.75	.72
334959CM	UA5652-11	0.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 10	700	RHDP	1.39	1.32	.98	.94
335089CM	UA5651-11	0.560"	Red	CA	10	2.1 @ 20	0.8 @ 10	700	RHDP	<del>\$1.04</del> .95	.85	.65	.488
335273CM	UA5654-11 EWRS	0.560"	Red	4-digit CA	36	2.1 @ 20	0.8 @ 10	700	RHDP	1.99	1.78	1.43	1.07
334896CM	UC5641R-11	0.560"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.76	.74	.51	.401
334941CM	UC5642R-11	0.560"	Hi-eff Red	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	<del>\$1.18</del> 1.09	.88	.67	.61
334976CM	UA5642R-11	0.560"	Hi-eff Red	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.85	.84	.63	.60
335100CM	UA5641R-11	0.560"	Hi-eff Red	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.75	.67	.50	.394
335312CM	UA5641-11	0.560"	Orange	CA	10	2.1 @ 20	3.3 @ 10	635	RHDP	.60	.50	.40	.38
334879CM	UC5641-11	0.560"	Orange	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	.65	.60	.416	.401
335151CM	UA5642-11	0.560"	Orange	2-digit CA	18	2.1 @ 20	3.3 @ 10	635	RHDP	.88	.81	.64	.58
334924CM	UC5642-11	0.560"	Orange	2-digit CC	18	2.1 @ 20	3.3 @ 10	635	RHDP	1.12	1.00	.80	.60
335185CM	UM5644R-11 RRRS	0.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	2.75	2.57	2.46	1.84
335126CM	UA5621-11	0.560"	Green	CA	10	2.1 @ 20	2.9 @ 10	562	RHDP	.75	.61	.40	.38
334861CM	UC5621-11	0.560"	Green	CC	10	2.1 @ 20	2.9 @ 10	567	RHDP	.81	.70	.60	.54
334967CM	UA5622-11	0.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.65	1.45	1.20	.96
334917CM	UC5622-11	0.560"	Green	2-digit CC	18	2.1 @ 20	2.9 @ 10	567	RHDP	1.04	.99	.74	.70
335169CM	UC5624-11 EWRS	0.560"	Green	4-digit CC	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.46	1.67	1.51
335177CM	UA5624-11 EWRS	0.560"	Green	4-digit CA	36	2.1 @ 20	2.9 @ 10	567	RHDP	2.75	2.47	2.25	1.69
335193CM	UM5624-11 EWRS	0.560"	Green	4-digit CC	12	2.1 @ 20	2.9 @ 10	567	RHDP	2.59	2.34	2.24	1.64
334908CM	UC8041-21 EWRS	0.800"	Orange	CC	13	2.1 @ 20	3.8 @ 10	635	RHDP	<del>\$1.29</del> 1.06	.95	.76	.57
335281CM	UJ1141-21 EWRN	1.2"	Orange	5 x 7 CC/AR	14	2.1 @ 20	4.6 @ 10	635	—	<del>\$5.49</del> 3.89	3.50	2.80	2.10
335290CM	UJ2041-22 EWRN	2.0"	Orange	5 x 7 CC/AR	14	2.1 @ 20	6.0 @ 10	630	—	<del>\$3.65</del> 3.39	3.15	2.90	2.73

## LEDTECH

## Other Manufacturers — Great Deals



24731CM	LSD3021-11	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	\$ .95	\$ .86	\$ .68	\$ .51
308187CM	LC3041R-RRRN	.300"	Hi-eff Red	CC	10	2.1 @ 20	3.3 @ 10	635	LHDP/RHDP	.80	.72	.57	.43
24740CM	LSD3221-11	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.79	.72	.64	.58
24782CM	LSD3211-11	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
308179CM	LC3951-11EWAK	.390"	Red	CC	10	2.1 @ 20	0.6 @ 10	700	RHDP	.79	.73	.68	.67
17187CM	LSD5051-11	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.80	.72	.65
17208CM	LSD5061-11	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213CM	LSD5124-10	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.80	.68	.60	.45

\* CA-Common Anode/CC-Common Cathode/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 14 segment

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.























## 7-Segment LED Displays (Continued)

**SALE**





**Quantity SAVE**

See pg 56 for package

LEDTECH  Other Manufacturers — Great Deals  										Pricing			
Part No.	Cross Ref. No.	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	1	10	100	1000
308224CM	LM5643R-11RRRN	0.560"	Orange	3-digit CC	11	2.1 @ 20	3.3 @ 10	635	RHDP	<del>\$2.25</del> \$1.89	\$1.69	\$1.35	<b>\$1.01</b>
308232CM	LM5644R-11RRRN	0.560"	Orange	4-digit CC	12	2.1 @ 20	3.3 @ 10	635	RHDP	3.15	2.69	2.15	<b>1.61</b>
199531CM	LSD5111-11	0.560"	Red	CC	10	2.1 @ 20	0.8 @ 20	697	RHDP	.99	.89	.71	<b>.53</b>
24715CM	LDD5121-20 	0.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723CM	LDD5111-11 	0.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
200379CM	LB602VAGI	0.560"	Red	2-digit CA	18	2.0 @ 10	16 @ 10	650	RHDP	1.65	1.15	.98	<b>.65</b>
24694CM	LDD5124 	0.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.69	1.52	.96	.73
24707CM	LDD5114-20 	0.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.59	1.43	.98	<b>.69</b>
200539CM	ELD556YWA	0.560"	Yellow	2-digit CA	18	2.0 @ 20	1.9 @ 10	590	RHDP	1.55	1.25	.99	<b>.75</b>
308216CM	LA5622-11EWRN	0.560"	Green	2-digit CA	18	2.1 @ 20	2.9 @ 10	567	RHDP	<del>\$1.87</del> .73	.552	.441	<b>.331</b>
225963CM	KW3-562A2B 	0.560"	Green	3-digit CA	28	2.2 @ 20	15 @ 20	568	RHDP	2.39	2.15	1.95	<b>1.46</b>
199582CM	LC56311 	0.560"	Yellow	CC	8	2.1 @ 20	5.2 @ 20	589	RHDP	1.43	1.25	1.09	<b>.82</b>
18737CM	LSD816-11 	0.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	<del>\$1.49</del> 1.18	1.15	1.10	<b>.82</b>
308259CM	LA8071-11-MIEWRW	0.800"	Red	CA	13	1.7 @ 20	8.9 @ 10	660	LHDP/RHDP	1.55	1.37	1.24	<b>.93</b>
18753CM	LSD8151-10 	0.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	RHDP	1.29	1.14	.97	<b>.87</b>
176559CM	C8021-1	0.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	.56	.51	.457	<b>.343</b>
308161CM	LA2541-24EWRN	1.0"	Orange	CA	10	4.2 @ 20	5.2 @ 10	635	RHDP	<del>\$2.89</del> 2.45	2.26	1.73	<b>1.30</b>
97172CM	LSD10061-10 	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.25	1.12	.99
97199CM	LSD23265-10 	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	5.75	5.19	4.69	4.19
97201CM	LSD23255-10 	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	<del>\$4.49</del> 3.35	3.00	2.85	<b>2.70</b>
308208CM	LA2321-42EWRN	2.24"	Green	CA	10	4.2 @ 40	2.7 @ 10	567	RHDP	<del>\$8.45</del> 7.15	6.39	5.11	<b>3.83</b>
202518CM	LSD30165-20 	3.0"	Orange Red	CA	10	8 @ 20	4.5 @ 10	635	RHDP	7.39	6.65	5.98	5.39
202542CM	LSD30155-20 	3.0"	Orange Red	CC	10	8 @ 20	4.5 @ 10	635	RHDP	5.49	4.95	4.45	4.05
105591CM	LSD40054-20 	4.0"	Orange Red	CC	10	2.0 @ 20	18 @ 20	635	RHDP	9.49	8.29	7.49	6.49
202500CM	LSD40064-20 	4.0"	Orange Red	CA	10	2.0 @ 20	18 @ 10	635	RHDP	10.49	9.49	8.59	<b>6.44</b>
202526CM	LSD50065-20 	5.0"	Red	CA	10	17 @ 20	45 @ 10	660	RHDP	30.19	24.15	21.75	16.31
202534CM	LSD50055-20 	5.0"	Red	CC	10	17 @ 20	45 @ 10	660	RHDP	19.75	15.78	14.24	<b>10.68</b>

\* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † 5 diodes per segment

## Dot Matrix and Bargraph LED Displays

Part No.	Cross Ref. No.	Jameco Socket Number	Character Height	Illuminated Color	Bus Polarity*	Pins/Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point #	1	10	100	1000
32951CM	TIL311	37161CM	0.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	\$16.95	\$14.35	\$12.20	<b>\$11.45</b>
308152CM	LA5041R-11BRRRN	—	0.500"	Orange	Alphanumeric	18	2.1 @ 20	7.4 @ 10	635	RHDP	1.69	1.49	1.21	<b>.908</b>
118906CM	LTP747R	37161CM	0.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	2.25	2.05	1.65	<b>1.25</b>
218843CM	CSM57041T-11	—	0.700"	Red	5 x 7 CC/CR	12	1.8 @ 20	8 @ 20	660	—	1.95	1.76	1.40	<b>1.05</b>
308144CM	LJ5763-M1FEWRN	—	1.10"	Red/Green	5 x 7 CC/AR	20	1.7/2.1 @ 20	10.8/20.0 @ 10	660/567	—	<del>\$4.05</del> 3.55	3.24	2.59	<b>1.94</b>
206560CM	LTP2157AG	—	2.0"	Green	5 x 7 CC/AR	14	3.7 @ 80	4.8 @ 80	565	—	1.85	1.65	1.49	<b>1.34</b>
183265CM	LMD5821ASR-20 	—	2.3"	Red	5 x 8 CC/AR	14	1.7 @ 20	12 @ 20	660	—	4.95	4.49	3.95	<b>2.96</b>
308110CM	LJ4071-22 EWRN	—	3.60"	Red; gray face	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	4.39	4.06	3.59	<b>3.23</b>
308128CM	LJ4071-22 BRRN	—	3.60"	Red; black face	5 x 7 CC/AR	14	3.4 @ 20	30.4 @ 10	660	—	4.39	4.06	3.59	<b>3.23</b>
334511CM	UL10000-E-EWAK 	—	—	Green	Bargraph	4	2.1 @ 20	1.4 @ 10	567	—	1.22	.99	.81	<b>.65</b>
334529CM	UL10000-HR-RRAK 	—	—	Red	Bargraph	4	2.1 @ 20	1.6 @ 10	635	—	1.18	.95	.78	<b>.63</b>
334537CM	UL10000-Y-EWAK 	—	—	Yellow	Bargraph	4	2.1 @ 20	1.1 @ 10	585	—	1.15	.93	.77	<b>.61</b>

\* CA-Common Anode/CC-Common Cathode/AC-Anode Column/CR-Cathode Row/AR-Anode Row # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point † Bargraph

### 2-50mA LED Tester

This pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of 12 positions on the socket strip to test at current ratings from 2-50mA. The seven middle positions on the strips are set at 10mA allowing comparison of LEDs in those spaces.

Requires: 9V battery (recommend P/N 198791CM, pg 251)

• Size: 3.2"L x 2.4"W x 0.9"H



Part No.	Description	Price
354968CM	LED tester	\$7.95

### JAMECO BenchPro 2-150mA LED Tester

Pocket-size LED tester makes it easy to check functionality, color, brightness and uniformity. Plug any leaded LED into one of the 13 positions on the tester at current ratings ranging from 2-30mA. Another 13 position strip ranging from 20mA to 150mA to test other types of LEDs with ACA (anode-cathode-anode) or CAC (cathode-anode-cathode) pin configuration. Includes 9V battery.

• Size: 3.1" L x 2.2" W x 0.9" H





Part No.	Description	Price
355805CM	LED tester 	\$8.95

### wellman 2-Digit Serial LED Display with Serial Interface Kit

- Bright, red jumbo-sized 7-segment displays (57mm)
- Easy platform control via RS-232 3-wire interface
- Multiple units can be linked easily to create large readout for score-keeping, timing, counting and other applications
- Up to 255 units can be separately addressed
- Power supply: 9-12VDC @ 120mA per display
- RS-232 interface: 2400 baud/8 data bits/no parity/one stop bit
- Size: 2.9"H x 2.3"W x 1.3"D



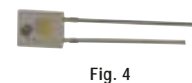
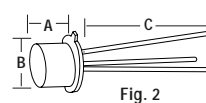
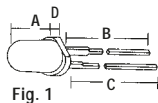
Part No.	Description	Price
645221CM	LED display	\$47.29

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

JAMECO ValuePro

## Infrared and Visible Light Emitters and Detectors

- Use for remote control and/or for fiber optics
- P/N 133946CM: Can be used with cameras, see page 275 (peak emission wavelength: 940nm @ 20mA)



Part No.	Cross Ref. No.	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches)				Vf @ If	nm	mWatts	Pricing			
						A	B	C	D				1	10	100	1000
372710CM	UT0383-41-940	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	940	13	\$ .23	\$ .225	\$ .151	\$ .136
372728CM	UT0385-41-880	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.16	0.88	0.94	0.04	1.3V @ 50mA	880	13	.30	.28	.176	.165
372736CM	UT1883-81-880	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.32	.22	.176	.167
372744CM	UT1885-81-880	2	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.30	0.88	0.94	0.04	1.5V @ 50mA	880	16	.30	.28	.176	.167
372761CM	UT1883-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.25	.197	.129	.116
372779CM	UT1885-81-940	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.3	0.88	0.94	0.04	1.3V @ 50mA	940	16	.29	.23	.151	.136
372816CM	UT6W83-AE-940	4	Infrared emitter diode (GaAs), sidelook	4.45mm x 2.31mm	—	—	—	—	—	1.3V @ 50mA	940	50	.29	.23	.144	.13
372963CM	UT0393-46-0125	1	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
372971CM	UT0395-46-0125	2	Infrared phototransistor	T1	0.125/3	0.16	0.88	0.94	0.04	—	—	—	.25	.24	.185	.167
373000CM	UT1893-91-0125	1	Infrared phototransistor	T1 3/4	0.200/5	—	—	—	—	—	—	—	.26	.25	.192	.173
373042CM	UT6W93-AE-0125	4	Infrared phototransistor, side view	4.45mm x 2.31mm	—	—	—	—	—	—	—	—	.30	.28	.22	.198

### Other Manufacturers

112150CM	LIR2043	1	Infrared emitter diode (GaAs)	T1	0.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	5	\$ .22	\$ .18	\$ .14	\$ .12
133946CM	SLI-0308CP	1	Infrared emitter diode (GaAs)	T1	0.12/3	0.22	0.98	1.00	0.03	1.3V @ 50mA	940	4	.62	.53	.40	.31
112176CM	LPT2023	1	Infrared phototransistor	T1	0.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.15
106526CM	LVR3333	1	Infrared emitter diode (GaAs)	T1 3/4	0.200/5	0.34	0.78	0.84	0.04	1.2V @ 20mA	940	8	.39	.29	.19	.15
112168CM	LPT3313	1	Infrared phototransistor	T1 3/4	0.200/5	0.31	1.05	1.10	0.04	—	940	—	.36	.30	.24	.20
120221CM	BPW777NA	2	Visible light phototransistor	TO-18	—	0.24	0.19	0.52	—	—	850	—	1.99	1.89	1.55	1.21
172321CM	OP133	3	Infrared emitter diode (GaAs)	TO-46	—	0.22	0.18	1.05	0.20	1.4V @ 100mA	935	5	1.95	1.85	1.69	1.59

Lens color: 1 = water clear; 2 = blue clear

JAMECO ValuePro

## LED Replacement Lamps

JAMECO EXCLUSIVE

### 585 Series Polarized

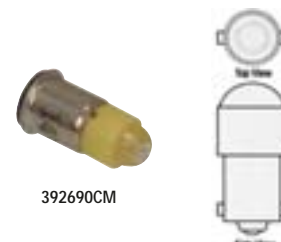
- Low current draw – 90% less energy than incandescent
- No heat generated
- Long life – up to 100k hours
- Mounts directly into industry standard socket

### Multi-Chip Based LED T1 - Midget Flange - Polarized

- Replaces incandescent lamp numbers: 327, 328, 330, 345, 350, 376, 377, 380, 381, 382, 385, 387, and 7341

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392673CM	585-1213	Ultra Red	14	20	280	625	\$5.79	\$5.65	\$4.48
392681CM	585-1313	Green	14	14	500	525	5.49	5.35	4.25
392690CM	585-1413	Yellow	14	20	530	588	5.49	5.35	4.25
392702CM	585-1215	Red	28	4.5	350	625	5.79	5.65	4.48
392711CM	585-1315	Green	28	4.5	300	525	5.49	5.35	4.25
392729CM	585-1415	Yellow	28	4.5	450	588	5.49	5.35	4.25

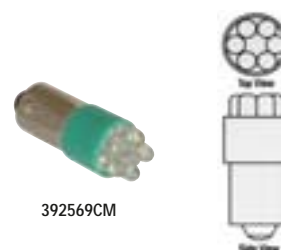
Blue Part No. = Limited Quantity Available



### Cluster-Based LED T3 - Miniature Bayonet (BA9s) - Non-Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
392551CM	585-5223	Red	14	20	7000	630	\$12.19	\$10.79	\$10.39
392569CM	585-5323	Green	14	20	6500	525	12.19	10.79	10.39
392585CM	585-5523	Yellow	14	20	7000	588	12.79	12.29	10.87
392593CM	585-5225	Red	28	15	6500	630	12.35	11.85	10.39
392606CM	585-5325	Green	28	15	6000	525	11.29	11.01	9.48
392622CM	585-5525	Yellow	28	15	6000	588	12.95	12.36	10.87
392631CM	585-5256	Red	120VAC	5.5	6500	625	9.89	9.64	8.31
392649CM	585-5356	Green	120VAC	5.5	7000	525	9.65	9.41	8.10
392665CM	585-5556	Yellow	120VAC	5.5	6500	590	11.15	10.87	9.35



### Bayonet Based LED T3 Polarized

- Replaces incandescent lamp numbers: 44, 47, 313, 755, 757, 1815, 1819, 1847, 1850, 1866, 1889, 1891, 1892, 1893, and 1895

Part No.	Cross Ref. No.	Color	Nominal Voltage	Forward Current (mA) typ.	Intensity (mcd) typ.	Wavelength (nm)	Pricing		
							1	10	100
394476CM	585-4113	Red	14	20	550	630	\$7.85	\$7.24	\$5.28
394492CM	585-4115	Red	28	14	350	630	7.85	7.24	5.28

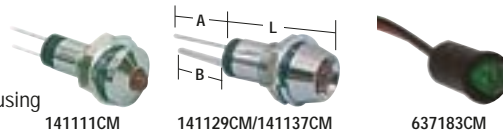


RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## LED Panel-Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

141111CM/141129CM/141137CM: Chrome housing



Part No.	Cross Ref. No.	LED Size	Color	Dimensions (in.)				Mounting Hole	Vf @ If	Pricing			
				L	A	B	H			1	10	100	1000
141111CM	L922SRD	T1	Red	.56	.34	.25	.23"		2V @ 20mA	\$ .79	\$ .60	\$ .52	\$ .45
141129CM	L913RD	T1	Red	.56	.39	.32	.24"		2V @ 20mA	1.09	.81	.69	.61
141137CM	L917RD	T1 3/4	Red	.70	.55	.47	.31"		2V @ 20mA	.89	.79	.71	.55
637183CM	UT2U1G-H113-R801-W05	T1 3/4	Green	.55	5.5	5.5	.24"		12V @ 30mA	1.29	1.05	.87	.76

## Incandescent Panel Mount Lamps

- 215781CM/215790CM/215773CM: wire length - 3.9" (100mm)
- 215749CM/215757CM/215765CM: wire length - 4.9" (125mm)
- 215714CM/215722CM/215731CM: solder terminals - 0.196" (5mm)

Part No.	Cross Ref. No.	Fig.	Voltage	Color	Mounting Hole	Pricing		
						1	10	100
215773CM	R9-46B-W100-12V-R	1	12	Red	1/2" (13mm)	\$1.79	\$1.61	\$1.20
215781CM	R9-46B-W100-12V-Y	1	12	Yellow	1/2" (13mm)	1.65	1.45	1.19
215790CM	R9-46B-W100-12V-G	1	12	Green	1/2" (13mm)	1.79	1.61	1.20
215749CM	R9-55B-W130-12V-R	2	12	Red	9/32" (7mm)	1.79	1.59	1.35
215757CM	R9-55B-W130-12V-Y	2	12	Yellow	9/32" (7mm)	1.65	1.45	1.19
215765CM	R9-55B-W130-12V-G	2	12	Green	9/32" (7mm)	1.79	1.59	1.35
215714CM	R9-71B-05-12V-R	3	12	Red	5/8" (16mm)	1.79	1.61	1.20
215722CM	R9-71B-05-12V-Y	3	12	Yellow	5/8" (16mm)	1.65	1.45	1.19
215731CM	R9-71B-05-12V-G	3	12	Green	5/8" (16mm)	1.79	1.61	1.20

## Cluster-Type T1 3/4 LED Lamp

- Cluster-type red/green T1 3/4 LEDs
- Lens: water clear
- Common anode
- 14 cluster (8 green/6 red)
- 660nm for red/570nm for green
- 3 lead wires

**Quantity SAVE**

Part No.	Product No.	Vf @ If	mcd @ mA	Lead Wire	Mounting Hole Dia.	Dimensions (Dia. x L)	Pricing		
							1	10	100
150922CM	LCR2614B-79	10V @ 20mA	1950 @ 20	7"	M3	1.02 x 1.51	\$4.95	\$4.21	\$3.16

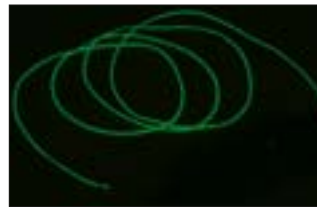
## Electroluminescence Wires

Imagine the possibilities of transforming ordinary objects with high tech visual effects. Wrap these fluorescent wires around any objects such as musical instruments, models, science projects, and presentation boards. Super charge your projects with brilliant colors.

- Powered by 2 AA batteries
- Length: 4.5'

Part No.	Product No.	Color	1	10	25
263484CM	NWRB15	Blue	\$21.95	\$20.95	\$19.95
263505CM	NWRG15	Green	21.95	20.95	19.95
263492CM	NWRR15	Red	21.95	20.95	19.95

velleman



## Neon Panel Mount Lamps

- Input voltage: 120V
- Mounting hole diameter: 5/8" (16mm)
- Solder terminals: 0.196" (5mm)

215802CM: Red

215811CM: Yellow

215829CM: Green

Part No.	Cross Ref. No.	1	10	100
215802CM	R9-71N-05-120V-R	\$1.79	\$1.59	\$1.35
215811CM	R9-71N-05-120V-Y	1.79	1.59	1.35
215829CM	R9-71N-05-120V-G	1.79	1.59	1.35

## Miniature Fluorescent Lamps

Add fluorescent color to your projects, computer case, car and other displays with these economical lights.

Now you can easily and affordably mount these 4" light tubes to add cool cold-cathode effects and give your display a richer look and feel. Optional power supply below converts 12VDC input into 180V - 800V output needed by lights.

Part No.	Prod. No.	Description	1	10	25
239610CM	FLW1	White light	\$9.95	\$8.95	\$7.95
239572CM	FLB1	Blue light	9.95	8.95	7.95
239581CM	FLBL1	Black light	9.95	8.95	7.95
239628CM	FLY1	Yellow light	9.95	8.95	7.95
239601CM	FLP1	Pink light	9.95	8.95	7.95
239599CM	FLG1	Green light	9.95	8.95	7.95
239636CM	FLPS1	12VDC PS	9.95	8.95	7.95

Order Anytime,  
Day or Night

Our friendly Sales department  
will take your order 24x7x365 by  
phone, fax, web or email.

## CdS Photocells

- Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers
- Generate variable signal based on detection of light levels
- Soldering: 230°C for 3 seconds
- Operating temperature: -30°C to +70°C
- Cadmium Sulfide (CdS)

Part No.	Cross Ref. No.	Rating	Resistance (Ω)	Size (inches)	Lead Spacing (inches)	Lead Length (inches)	Pricing			
							1	10	100	1000
120299CM	CDS0029001	50 200	100k 10k	0.40 0.44	0.30 1.50	1.02	\$ .89	\$ .80	\$ .69	\$ .52
202438CM	CDS0037004	200 150	500k 15k	0.25 0.29	1.02 1.44	1.02	1.49	1.34	1.07	.96
	CDS0045001	350 400	300k 8k	0.37 0.43	1.44 1.59	1.44	1.79	1.59	1.45	1.29
	CDS0045003	350 400	1M 12k	0.37 0.43	1.44 1.55	1.44	1.69	1.55	1.35	1.15

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



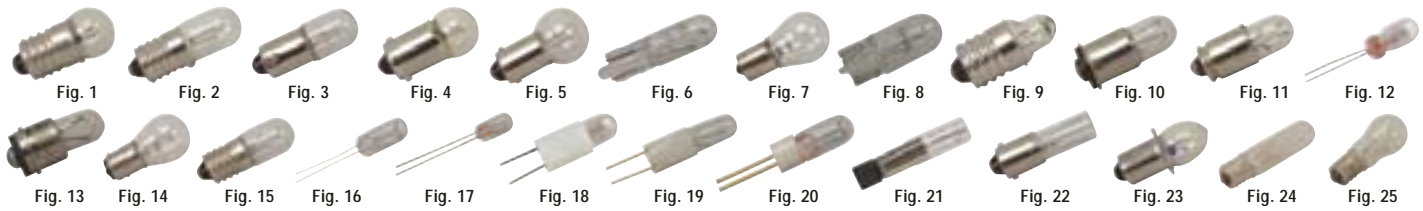
# Incandescent & Neon Lamps



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave



## Incandescent Lamps

Quantity SAVE

\* Prepackaged: order in increments of 5, 10 or 100

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209381CM	13	1	G3 1/2 miniature screw	3.7	.98	<del>\$ .79</del>	<del>\$ .75</del>	<del>\$ .69</del>	<del>\$ .52</del>
209390CM	14	1	G3 1/2 miniature screw	2.47	.50	.55	.52	.49	.45
209402CM	40	2	T3 1/4 miniature screw	6.3	.50	.35	.29	.19	.15
209411CM	44	3	T3 1/4 miniature bayonet	6.3	.90	*	.19	.188	.141
209429CM	46	2	T3 1/4 miniature screw	6.3	.90	.45	.37	.32	.27
209437CM	47	3	T3 1/4 miniature bayonet	6.3	.50	*	.19	.188	.141
209445CM	50	1	G3 1/2 miniature screw	7.5	1.0	.59	.53	.45	.337
210403CM	51	4	G3 1/2 miniature bayonet	7.5	1.0	.34	.31	.278	.209
209453CM	53	4	G3 1/2 miniature bayonet	14.4	1.0	.54	.484	.429	.322
210411CM	55	5	G4 1/2 miniature bayonet	7.0	2.0	*	.166	.12	.09
209461CM	73	6	T1 3/4 wedge	14.0	.30	.24	.218	.19	.165
209470CM	85	6	T1 3/4 wedge	28.0	.30	.27	.24	.21	.158
209488CM	86	6	T1 3/4 wedge	6.3	.40	*	.19	.171	.128
209496CM	93	7	S-8 sngl contact bayonet	12.8	15.0	<del>\$ .59</del>	<del>\$ .32</del>	<del>\$ .284</del>	<del>\$ .23</del>
209509CM	161	8	T3 1/4 wedge	14.0	1.0	.35	.31	.24	.18
209517CM	168	8	T3 1/4 wedge	14.0	3.0	<del>\$ .85</del>	<del>\$ .24</del>	<del>\$ .216</del>	<del>\$ .173</del>
209525CM	194	8	T3 1/4 wedge	14.0	2.0	*	.19	.185	.139
209533CM	222	9	GTL-3 miniature screw	2.25	—	.28	.27	.229	.172
209541CM	259	8	T3 1/4 wedge	6.3	.65	.22	.19	.184	.138
209550CM	313	3	T3 1/4 miniature bayonet	28.0	3.5	.23	.21	.198	.149
209568CM	327	10	T1 3/4 midgid flange	28.0	.34	.27	.26	.24	.23
209576CM	328	10	T1 3/4 midgid flange	6.0	.60	.41	.39	.36	.27
209584CM	330	10	T1 3/4 midgid flange	14.0	.50	.32	.305	.288	.251
209592CM	334	11	T1 3/4 midgid groove	28.0	.34	.38	.342	.308	.231
209605CM	335	15	T1 3/4 midgid screw	28.0	.34	.40	.385	.346	.30
209613CM	344	10	T1 3/4 midgid flange	10.0	.002	.79	.71	.61	.55
209621CM	345	10	T1 3/4 midgid flange	6.0	.03	.36	.32	.288	.23
209630CM	370	10	T1 3/4 midgid flange	18.0	.15	.36	.284	.256	.23
209648CM	376	10	T1 3/4 midgid flange	28.0	.34	.34	.309	.277	.25
209656CM	379	11	T1 3/4 midgid groove	6.3	.40	.36	.321	.289	.26
209664CM	381	10	T1 3/4 midgid flange	6.3	.40	.38	.365	.344	.251
209672CM	382	10	T1 3/4 midgid flange	14.0	.30	.61	.56	.49	.368
209681CM	385	10	T1 3/4 midgid flange	28.0	.15	.34	.309	.278	.25
209699CM	386	11	T1 3/4 midgid groove	14.0	.30	.45	.39	.33	.27
209701CM	387	10	T1 3/4 midgid flange	28.0	.30	.37	.34	.27	.25
209710CM	388	11	T1 3/4 midgid groove	28.0	.30	.32	.305	.288	.23
209728CM	394	10	T1 3/4 midgid flange	12.0	.12	.36	.35	.32	.24
209736CM	656	8	T3 1/4 wedge .06A	28.0	.62	.20	.18	.168	.126
209752CM	657	8	T3 1/4 wedge .08A	28.0	.62	.23	.205	.184	.138
202100CM	683	12	T1 wire terminal	5.0	.05	.54	.429	.385	.308
209761CM	685	13	T1 sub midgid flange	5.0	.05	.55	.493	.44	.40
209779CM	715	12	T1 wire terminal	5.0	.15	.91	.82	.70	.525
209787CM	755	3	T3 1/4 miniature bayonet	6.3	.33	.49	.44	.37	.30
209795CM	756	3	T3 1/4 miniature bayonet	14.0	.31	.40	.38	.328	.246
209808CM	757	3	T3 1/4 miniature bayonet	28.0	.62	.42	.35	.32	.27
210438CM	1156	7	S-8 sngl contact bayonet	12.8	32	.49	.45	.39	.293
210446CM	1157	14	S-8 double contact index	12.8/14	32/3	<del>\$ .45</del>	.32	.31	.293
209816CM	1450	4	G3 1/2 miniature bayonet	24.0	.23	.99	.89	.76	.57
209824CM	1813	3	T3 1/4 miniature bayonet	14.4	.86	.28	.26	.232	.174
209832CM	1815	3	T3 1/4 miniature bayonet	14.0	1.4	.38	.34	.293	.22
209841CM	1816	3	T3 1/4 miniature bayonet	13.0	3.0	.24	.22	.208	.156
209859CM	1818	3	T3 1/4 miniature bayonet	24.0	3.3	.81	.78	.75	.56
209867CM	1819	3	T3 1/4 miniature bayonet	28.0	.34	.23	.21	.198	.149
209875CM	1820	3	T3 1/4 miniature bayonet	28.0	1.6	.30	.28	.26	.195
209883CM	1821	15	T3 1/4 screw	28.0	3.4	.99	.89	.79	.59
209891CM	1822	3	T3 1/4 miniature bayonet	36.0	2.1	.29	.28	.27	.203
209904CM	1829	3	T3 1/4 miniature bayonet	28.0	1.0	.23	.21	.208	.156

## Incandescent Lamps (Continued)

SALE

Part No.	Cross Ref. No.	Fig.	Description	Volts	MSCP	Pricing			
						1	5	10	100
209912CM	1835	3	T3 1/4 miniature bayonet	55.0	1.1	<del>\$ .36</del>	<del>\$ .35</del>	<del>\$ .342</del>	<del>\$ .257</del>
209921CM	1847	3	T3 1/4 miniature bayonet	6.3	.38	.55	.49	.36	.27
209939CM	1850	3	T3 1/4 miniature bayonet	5.0	.25	.50	.45	.38	.285
209947CM	1864	3	T3 1/4 miniature bayonet	28.0	3.0	.55	.50	.40	.30
209955CM	1866	3	T3 1/4 miniature bayonet	6.3	.65	.59	.55	.53	.396
209963CM	1891	3	T3 1/4 min. bayonet .24A	14.0	2.0	.38	.365	.352	.264
141073CM	2182	16	T1 3/4 wire terminal	14.0	.30	.49	.44	.39	.34
141065CM	2200	16	T1 3/4 wire terminal	5.0	.05	.59	.54	.49	.44
141057CM	6833	17	T 3/4 wire terminal	5.0	.05	1.25	1.15	1.07	.80
209998CM	7219	12	T1 wire terminal	12.0	.15	.35	.29	.25	.19
210008CM	7328	18	T1 3/4 bi-pin	6.0	.60	.89	.79	.69	.59
210016CM	7335	10	T1 3/4 midgid flange	5.0	.15	.59	.50	.40	.30
210024CM	7341	10	T1 3/4 midgid flange	28.0	.65	.69	.66	.54	.405
141006CM	7361	18	T1 3/4 bi-pin	5.0	.05	.99	.89	.79	.69
210032CM	7382	18	T1 3/4 bi-pin	14.0	.30	.61	.49	.44	.33
210041CM	7387	18	T1 3/4 bi-pin	28.0	.30	.61	.56	.49	.36
210059CM	7632	19	T1 1/4 bi-pin	28.0	.32	1.29	.99	.89	.67
210067CM	7683	20	T1 bi-pin	5.0	.05	.99	.75	.60	.45
210075CM	7715	20	T1 bi-pin	5.0	.15	1.19	.99	.89	.79
210083CM	7839	20	T1 bi-pin	28.0	.15	1.49	1.24	1.11	.83
210227CM	6PSB	21	T2 tel. slide base type 5	6.0	550	.42	.382	.344	.31
309673CM	6S6	25	S6 candelabra	120	—	.84	.80	.76	.57
210112CM	12ESB	21	T2 tel. slide base type 5	12.0	650	.54	.49	.41	.308
210121CM	12PSB	21	T2 tel. slide base type 5	12.0	2000	.54	.49	.41	.308
309681CM	20T6 1/2	24	T6 1/2 20W intermediate	120	—	1.69	1.59	1.55	1.16
210139CM	24ESB	21	T2 tel. slide base type 5	24.0	850	.54	.49	.41	.308
210147CM	24MB	22	T2 miniature bayonet	24.0	3000	.79	.65	.55	.413
210163CM	28ESB	21	T2 tel. slide base type 5	28.0	1500	.59	.51	.45	.338
210171CM	28MB	22	T2 miniature bayonet	28.0	1600	.58	.52	.467	.42
210180CM	28PSB	21	T2 tel. slide base type 5	28.0	1600	.69	.62	.53	.395
210198CM	48PSB	21	T2 tel. slide base type 5	48.0	1800	.52	.469	.422	.38
210201CM	60MB	22	T2 miniature bayonet	60.0	2200	.58	.519	.467	.42
210219CM	60PSB	21	T2 tel. slide base type 5	60.0	2200	.55	.50	.485	.364
210091CM	120MB	22	T2 miniature bayonet	120.0	1200	.86	.81	.74	.61
210104CM	120PSB	21	T2 tel. slide base type 5	120.0	1200	.69	.65	.59	.55
210340CM	PR2	23	B3 1/2 sngl cont. mini flange	2.38	.80	.20	.19	.176	.132
210358CM	PR3	23	B3 1/2 sngl cont. mini flange	3.57	1.5	.20	.185	.174	.131
210366CM	PR4	23	B3 1/2 sngl cont. mini flange	2.33	.40	.20	.19	.174	.131
210374CM	PR6	23	B3 1/2 sngl cont. mini flange	2.47	.45	.20	.19	.174	.131

Quantity SAVE

## Neon Lamps



Part No.	Cross Ref. No.	Fig.	Description	Voltage	Pricing			
					1	5	10	100
27351CM	A1A (NE-2)	1	Wire terminal .6mA	65-120	<del>\$ .42</del>	<del>\$ .35</del>	<del>\$ .31</del>	<del>\$ .26</del>
210243CM	A1B	1	Wire terminal .3mA	65-120	.25	.24	.232	.174
210251CM	A1C	1	Wire terminal 1.2mA	65-120	.34	.325	.29	.25
210260CM	A9A (NE-2E)	1	Wire terminal .7mA	65-120	.25	.238	.232	.174
210278CM	B1A (NE-51)	2	T3 1/4 miniature bayonet	65-120	.77	.70	.68	.51
210286CM	B2A (NE-51H)	2	T3 1/4 miniature bayonet	65-120	.86	.74	.61	.451
210294CM	B7A (NE-45)	3	T4 1/2 candelabra screw	65-120	3.55	3.10	2.75	2.06
210315CM	C2A (NE-2H)	1	Wire terminal	65-120	.45	.39	.35	.26

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

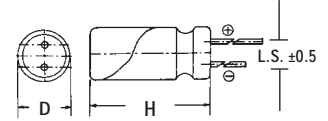


## Aluminum Radial-Lead Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater








































† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
 Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



### 85°C – General Purpose

\* Prepackaged: order in increments of 10, 100 or 500

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609043CM	UVR2A0R1MDD 	0.1	100V	5 x 11 x 2	*	\$ .098	\$ .081	\$ .055
609078CM	UVR2AR22MDD 	0.22	100V	5 x 11 x 2	*	.095	.078	.048
609086CM	UVR2AR33MDD 	0.33	100V	5 x 11 x 2	*	.095	.078	.048
330464CM	RA0.47/50 	0.47	50V	5 x 11 x 2	*	.045	.039	.03
609094CM	UVR2AR47MDD 	0.47	100V	5 x 11 x 2	*	.095	.078	.048
330536CM	RA.47/160 	0.47	160V	5 x 11 x 2	*	.151	.103	.07
330430CM	RA1/25 	1	25V	5 x 11 x 2	*	.045	.039	.03
94160CM	5R1/50 	1	50V	4 x 5 x 1.5	*	.12	.08	.05
29832CM	R1/50 	1	50V	5 x 11 x 2	*	.063	.053	.042
609035CM	UVR2A010MDD 	1	100V	5 x 11 x 2	*	.098	.082	.055
330544CM	RA1/160 	1	160V	6 x 11 x 2.5	*	.047	.045	.04
330587CM	RA1/250 	1	250V	6 x 11 x 2.5	*	.065	.06	.053
330405CM	RA2.2/16 	2.2	16V	5 x 11 x 2	*	.045	.039	.03
93730CM	R2.2/50 	2.2	50V	5 x 11 x 2	*	.038	.033	.026
199021CM	R2.2/100 	2.2	100V	5 x 11 x 2	*	.035	.03	.025
609123CM	UVR2C2R2MED 	2.2	160V	6.3 x 11 x 2.5	.20	.126	.08	.056
609182CM	UVR2E2R2MED 	2.2	250V	6.3 x 11 x 2.5	.22	.141	.097	.066
609254CM	UVR2V2R2MPD 	2.2	350V	8 x 11.5 x 3.5	.27	.182	.128	.088
609211CM	UVR2G2R2MPD 	2.2	400V	10 x 12.5 x 5	.30	.213	.152	.112
135184CM	R3.3/50 	3.3	50V	5 x 11 x 2	*	.05	.04	.03
609051CM	UVR2A3R3MDD 	3.3	100V	5 x 11 x 2	*	.095	.078	.058
609191CM	UVR2E3R3MPD 	3.3	250V	8 x 11.5 x 3.5	.25	.166	.12	.08
609271CM	UVR2V3R3MPD 	3.3	350V	10 x 12.5 x 5	.30	.229	.16	.12
330413CM	RA4.7/16 	4.7	16V	5 x 11 x 2	*	.045	.04	.03
330448CM	RA4.7/25 	4.7	25V	5 x 11 x 2	*	.045	.039	.03
31001CM	R4.7/50 	4.7	50V	6 x 11 x 2	*	.042	.037	.029
609060CM	UVR2A4R7MDD 	4.7	100V	5 x 11 x 2	*	.103	.088	.058
609158CM	UVR2C4R7MED 	4.7	160V	6.3 x 11 x 2.5	*	.119	.08	.048
330595CM	RA4.7/250 	4.7	250V	8 x 11 x 3.5	*	.112	.094	.083
609297CM	UVR2V4R7MPD 	4.7	350V	10 x 12.5 x 5	.30	.229	.16	.12
609220CM	UVR2G4R7MPD 	4.7	400V	10 x 16 x 5	.37	.269	.196	.141
198838CM	R10J/16 	10	16V	5 x 11 x 2	*	.045	.03	.025
94211CM	5R10/25 	10	25V	4 x 5 x 1.5	*	.13	.08	.05
94220CM	5R10/35 	10	35V	5 x 5 x 2	*	.09	.07	.065
94369CM	7R10/35 	10	35V	5 x 7 x 2	*	.09	.07	.065
29892CM	R10/50 	10	50V	5 x 11 x 2	*	.067	.055	.045
330481CM	RA10/63 	10	63V	5 x 11 x 2	*	.056	.047	.038
199048CM	R10J/100 	10	100V	6 x 11 x 2.5	*	.07	.06	.05
330552CM	RA10/160 	10	160V	8 x 11 x 3.5	*	.122	.114	.093
330608CM	RA10/250	10	250V	10 x 15 x 5	*	.16	.133	.114
330632CM	RA10/350	10	350V	10 x 20 x 5	.25	.226	.20	.171
609203CM	UVR2G100MDD	10	400V	12.5 x 20 x 5	.45	.34	.248	.186
330641CM	RA10/450	10	450V	13 x 21 x 5	.46	.414	.333	.241
198846CM	R22J/16	22	16V	5 x 11 x 2	*	.04	.035	.026
189918CM	R22J/25	22	25V	5 x 11 x 2	*	.032	.027	.023
198942CM	R22J/35	22	35V	5 x 11 x 2	*	.029	.026	.023
93738CM	R22/50	22	50V	5 x 11 x 2	*	.062	.056	.039
608972CM	UVR1J220MDD	22	63V	5 x 11 x 2	*	.111	.072	.048
199056CM	R22J/100	22	100V	6 x 11 x 2.5	*	.15	.09	.06
609107CM	UVR2C220MPD	22	160V	10 x 16 x 5	.30	.213	.16	.112
609166CM	UVR2E220MDD	22	250V	12.5 x 20 x 5	.48	.356	.256	.186
609246CM	UVR2V220MDD	22	350V	12.5 x 25 x 5	.49	.371	.28	.203
330659CM	RA22/450	22	450V	16 x 26 x 7.5	.58	.517	.456	.39
198854CM	R33J/16	33	16V	5 x 11 x 2	*	.033	.028	.019
198926CM	R33J/25	33	25V	5 x 11 x 2	*	.045	.035	.025
609027CM	UVR1V330MDD	33	35V	5 x 11 x 2	*	.103	.085	.058
93746CM	R33/50	33	50V	6 x 11 x 2.5	*	.055	.05	.045
608999CM	UVR1J330MED	33	63V	6.3 x 11 x 2.5	*	.126	.088	.064

	Cross	Value		Size (mm)	Pricing			
Part No.	Ref. No. ↑	(µF)	Voltage	D x H x L.S.	1	10	100	500
199064CM	R33J/100 ☺	33	100V	8 x 11 x 3.5	*	\$ .11	\$ .10	\$ .09
609131CM	UVR2C330MPD ⚡	33	160V	10 x 20 x 5	.45	.34	.248	.178
609262CM	UVR2V330MHD ⚡	33	350V	16 x 25 x 7.5	.85	.63	.472	.348
330667CM	RA33/450 ☺	33	450V	16 x 30 x 7.5	1.09	.97	.86	.62
135302CM	R47/10	47	10V	5 x 12 x 2	*	.04	.03	.023
198862CM	R47J/16 ☺	47	16V	5 x 11 x 2	*	.04	.032	.023
93754CM	R47/25 ☺	47	25V	5 x 11 x 2	*	.053	.037	.029
198951CM	R47J/35 ☺	47	35V	5 x 11 x 2	*	.05	.04	.03
31115CM	R47/50 ☺	47	50V	6 x 11 x 2.5	*	.067	.056	.05
330499CM	RA47/63 ☺	47	63V	8 x 12 x 3.5	*	.089	.075	.064
199072CM	R47J/100 ☺	47	100V	10 x 12 x 5	*	.15	.13	.10
330561CM	RA47/160S ☺	47	160V	10 x 20 x 5	.34	.31	.276	.238
330616CM	RA47/250 ☺	47	250V	13 x 25 x 5	.57	.508	.447	.388
609289CM	UVR2V470MHD ⚡	47	350V	16 x 35.5 x 7.5	1.37	1.04	.78	.57
330675CM	RA47/450 ☺	47	450V	18 x 30 x 7.5	1.75	1.21	.92	.70
608809CM	UVR0J101MDD ⚡	100	6.3V	5 x 11 x 2	*	.087	.075	.048
207812CM	R100/10 ☺	100	10V	5 x 11 x 2	*	.08	.06	.05
330421CM	RA100/16 ☺	100	16V	5 x 11 x 2	*	.056	.055	.048
94289CM	5R100/16 ☺	100	16V	6 x 5 x 2.5	*	.15	.12	.09
94431CM	7R100/16 ☺	100	16V	6 x 7 x 2.5	*	.15	.12	.09
93762CM	R100/25 ☺	100	25V	6 x 11 x 2.5	*	.078	.056	.039
198969CM	R100J/35 ☺	100	35V	6 x 11 x 2.5	*	.07	.06	.05
29963CM	R100/50 ☺	100	50V	8 x 11 x 3.5	*	.078	.067	.056
330501CM	RA100/63 ☺	100	63V	8 x 14 x 3.5	*	.122	.114	.095
330528CM	RA100/100 ☺	100	100V	10 x 20 x 5	.33	.282	.266	.19
330579CM	RA100/160S ☺	100	160V	13 x 25 x 5	.56	.498	.437	.371
330624CM	RA100/250 ☺	100	250V	16 x 30 x 7.5	1.25	1.09	.95	.68
609238CM	UVR2V101MHD ⚡	100	350V	18 x 40 x 7.5	1.41	1.07	.83	.61
330683CM	RA100/450 ☺	100	450V	22 x 42 x 10.5	3.39	3.03	2.08	1.56
608833CM	UVR0J221MDD ⚡	220	6.3V	5 x 11 x 2	*	.119	.08	.056
135124CM	7R220/10 ☺	220	10V	6 x 7 x 2.5	.26	.23	.19	.142
198871CM	R220J/16 ☺	220	16V	6 x 11 x 2.5	*	.11	.07	.06
30497CM	R220/25 ☺	220	25V	8 x 11 x 3.5	*	.08	.06	.05
93771CM	R220/35 ☺	220	35V	8 x 12 x 5	*	.09	.08	.07
93779CM	R220/50 ☺	220	50V	10 x 15 x 5	*	.167	.133	.10
330510CM	RA220/63 ☺	220	63V	10 x 17 x 5	.27	.235	.219	.181
199081CM	R220J/100 ☺	220	100V	12 x 25 x 5	.52	.47	.37	.28
609115CM	UVR2C221MHD ⚡	220	160V	16 x 35.5 x 7.5	1.29	.98	.73	.527
609174CM	UVR2E221MRD ⚡	220	250V	20 x 40 x 10	2.69	2.23	1.72	1.29
608868CM	UVR0J331MED ⚡	330	6.3V	6.3 x 11 x 2.5	*	.126	.088	.064
608921CM	UVR1A331MED ⚡	330	10V	6.3 x 11 x 2.5	.23	.15	.104	.072
198890CM	R330J/16 ☺	330	16V	8 x 11 x 3.5	*	.132	.066	.056
93797CM	R330/25 ☺	330	25V	8 x 12 x 3.5	*	.144	.10	.089
939977CM	R330J/35 ☺	330	35V	10 x 12 x 5	.20	.18	.144	.108
330472CM	RA330/50 ☺	330	50V	10 x 20 x 5	.26	.235	.209	.181
609001CM	UVR1J331MPD ⚡	330	63V	10 x 20 x 5	.50	.371	.28	.203
199099CM	R330J/100 ☺	330	100V	12 x 25 x 5	.60	.54	.43	.32
330384CM	RA470/10 ☺	470	10V	8 x 11 x 3.5	*	.103	.083	.067
93810CM	R470/16 ☺	470	16V	8 x 11 x 3.5	*	.11	.103	.099
31182CM	R470/25 ☺	470	25V	8 x 14 x 5	*	.133	.111	.10
93818CM	R470/35 ☺	470	35V	10 x 16 x 5	*	.17	.15	.13
93826CM	R470/50 ☺	470	50V	10 x 20 x 5	.32	.31	.21	.144
609019CM	UVR1J471MHD ⚡	470	63V	12.5 x 20 x 5	.69	.514	.384	.284
199101CM	R470J/100 ☺	470	100V	16 x 25 x 7.5	1.15	.78	.69	.58
609140CM	UVR2C471MRD ⚡	470	160V	22 x 40 x 10	2.55	1.91	1.46	1.09
330456CM	RA680/25S ☺	680	25V	8 x 16 x 3.5	.97	.87	.78	.70
330392CM	RA1000/10 ☺	1000	10V	8 x 14 x 3.5	*	.132	.114	.091
30016CM	R1000/16 ☺	1000	16V	10 x 16 x 5	*	.16	.14	.12

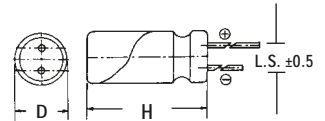


## Aluminum Radial-Lead Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU



## 85°C – General Purpose (Continued)

\* Prepackaged: order in increments of 10, 100 or 500

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
93834CM	R1000/25	1000	25V	10 x 20 x 5	\$.28	\$.25	\$.23	\$.18
286045CM	Q399L	1000	35V	12 x 20 x 5	.50	.46	.41	.33
93842CM	R1000/50	1000	50V	13 x 25 x 5	.58	.51	.455	.38
608964CM	UVR1J102MHD	1000	63V	16 x 25 x 7.5	1.11	.84	.63	.454
199110CM	R1000J/100	1000	100V	18 x 40 x 7.5	2.29	2.06	1.65	1.24
608841CM	UVR0J222MPD	2200	6.3V	10 x 20 x 5	.41	.316	.224	.162
608913CM	UVR1A222MPD	2200	10V	10 x 20 x 5	.45	.332	.248	.178
133146CM	R2200/16	2200	16V	10 x 20 x 5	.36	.31	.267	.244
30534CM	R2200/25	2200	25V	13 x 21 x 5	.61	.545	.444	.333
198985CM	R2200J/35	2200	35V	16 x 25 x 7.5	1.39	1.25	.99	.74
608956CM	UVR1H222MHD	2200	50V	16 x 35.5 x 7.5	1.55	1.14	.87	.62
608981CM	UVR1J222MHD	2200	63V	18 x 35.5 x 7.5	1.49	1.14	.87	.65
198897CM	R3300J/16	3300	16V	12 x 25 x 5	.49	.39	.33	.29
30892CM	R3300/25	3300	25V	13 x 29 x 5	.79	.72	.545	.48
198993CM	R3300J/35	3300	35V	16 x 35 x 7.5	.87	.77	.67	.57

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
199013CM	R3300J/50	3300	50V	18 x 35 x 7.5	\$2.15	\$1.94	\$1.55	\$1.16
608876CM	UVR0J472MHD	4700	6.3V	12.5 x 20 x 5	.72	.545	.408	.30
608930CM	UVR1A472MHD	4700	10V	12.5 x 25 x 5	.87	.65	.488	.348
198900CM	R4700J/16	4700	16V	16 x 25 x 7.5	.79	.71	.64	.58
93851CM	R4700/25	4700	25V	16 x 31 x 7.5	1.10	.94	.78	.61
199005CM	R4700J/35	4700	35V	18 x 35 x 7.5	1.35	1.25	1.15	1.05
163302CM	R4700/50	4700	50V	22 x 42 x 10	2.25	1.99	1.67	1.45
608884CM	UVR0J682MHD	6800	6.3V	12.5 x 25 x 5	.92	.70	.528	.381
31511CM	R6800/16	6800	16V	16 x 26 x 7.5	1.10	.87	.76	.66
198934CM	R6800J/25	6800	25V	18 x 35 x 7.5	1.59	1.43	1.14	.86
608817CM	UVR0J103MHD	10,000	6.3V	16 x 25 x 7.5	1.30	.98	.74	.531
608892CM	UVR0J103MHD	10,000	10V	16 x 35.5 x 7.5	1.48	1.13	.86	.62
608948CM	UVR1C103MHD	10,000	16V	18 x 35.5 x 7.5	1.59	1.18	.90	.64
608825CM	UVR0J153MHD	15,000	6.3V	16 x 35.5 x 7.5	1.55	1.15	.87	.62
608905CM	UVR1A153MHD	15,000	10V	18 x 35.5 x 7.5	1.59	1.19	.90	.64
608850CM	UVR0J223MHD	22,000	6.3V	18 x 40 x 7.5	1.59	1.19	.91	.68

## 105°C – HT Type General Purpose

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609545CM	UVZ1H0R1MDD	0.1	50V	5 x 11 x 2	\$.20	\$.126	\$.088	\$.056
609617CM	UVZ1HR22MDD	0.22	50V	5 x 11 x 2	.20	.126	.088	.056
609625CM	UVZ1HR33MDD	0.33	50V	5 x 11 x 2	.20	.126	.088	.056
609633CM	UVZ1HR47MDD	0.47	50V	5 x 11 x 2	.20	.126	.088	.056
158481CM	RO.47B100	0.47	100V	5 x 11 x 2	*	.05	.04	.03
607831CM	UPW1H010MDD	1	50V	5 x 11 x 2	*	.119	.088	.072
330771CM	RB1/50	1	50V	5 x 11 x 2	*	.056	.046	.036
608323CM	UPW2A010MDD	1	100V	5 x 11 x 2	.20	.134	.096	.072
158490CM	R1B100	1	100V	5 x 11 x 2	*	.06	.05	.04
330835CM	RB1/160	1	160V	5 x 11 x 2	*	.078	.067	.055
609895CM	UVZ2D010MED	1	200V	6.3 x 11 x 2.5	.23	.16	.114	.079
609959CM	UVZ2E010MED	1	250V	6.3 x 11 x 2.5	.23	.166	.112	.072
610028CM	UVZ2W010MPD	1	450V	8 x 11.5 x 3.5	.29	.213	.152	.104
609561CM	UVZ1H2R2MDD	2.2	50V	5 x 11 x 2	*	.103	.088	.058
607937CM	UPW1H2R2MDD	2.2	50V	5 x 11 x 2	*	.119	.088	.072
609772CM	UVZ2A2R2MDD	2.2	100V	5 x 11 x 2	.20	.126	.088	.056
608366CM	UPW2A2R2MDD	2.2	100V	5 x 11 x 2	.20	.134	.096	.08
609844CM	UVZ2C2R2MED	2.2	160V	6.3 x 11 x 2.5	.23	.158	.112	.072
609924CM	UVZ2D2R2MED	2.2	200V	6.3 x 11 x 2.5	.26	.182	.128	.088
609983CM	UVZ2E2R2MED	2.2	250V	6.3 x 11 x 2.5	.30	.205	.144	.096
610052CM	UVZ2W2R2MPD	2.2	450V	10 x 12.5 x 5	.37	.277	.20	.144
607961CM	UPW1H3R3MDD	3.3	50V	5 x 11 x 2	*	.119	.088	.072
609799CM	UVZ2A3R3MDD	3.3	100V	5 x 11 x 2	.20	.134	.096	.064
608382CM	UPW2A3R3MDD	3.3	100V	5 x 11 x 2	.24	.166	.12	.096
609861CM	UVZ2C3R3MED	3.3	160V	6.3 x 11 x 2.5	.30	.198	.144	.102
609932CM	UVZ2D3R3MED	3.3	200V	6.3 x 11 x 2.5	.30	.205	.144	.096
610001CM	UVZ2E3R3MPD	3.3	250V	8 x 11.5 x 3.5	.30	.205	.144	.096
607909CM	UPW2W3R3MDD	3.3	450V	10 x 16 x 5	.44	.332	.24	.17
609596CM	UVZ1H3R3MDD	3.6	50V	5 x 11 x 2	.20	.126	.088	.056
607996CM	UPW1H4R7MDD	4.7	50V	5 x 11 x 2	*	.119	.088	.072
330780CM	RB4.7/50	4.7	50V	5 x 11 x 2	*	.056	.046	.036
609810CM	UVZ2A4R7MDD	4.7	100V	5 x 11 x 2	.20	.134	.096	.064
608887CM	UVZ2C4R7MED	4.7	160V	6.3 x 11 x 2.5	.30	.205	.144	.096
609941CM	UVZ2D4R7MPD	4.7	200V	8 x 11.5 x 3.5	.30	.229	.168	.12
330851CM	RB4.7/250	4.7	250V	8 x 11 x 3.5	*	.14	.122	.105
610087CM	UVZ2W4R7MPD	4.7	450V	10 x 20 x 5	.54	.403	.304	.219
330691CM	RB10/16	10	16V	5 x 11 x 2	*	.039	.034	.029
607849CM	UPW1H100MDD	10	50V	5 x 11 x 2	.20	.134	.096	.072
330798CM	RB10/50	10	50V	5 x 11 x 2	*	.056	.046	.036
609641CM	UVZ1J100MDD	10	63V	5 x 11 x 2	*	.126	.096	.064

Part No.	Cross Ref. No.†	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
608331CM	UPW2A100MED	10	100V	6.3 x 11 x 2.5	\$.27	\$.198	\$.144	\$.112
158529CM	R10B100	10	100V	6 x 11 x 2.5	*	.08	.07	.055
330843CM	RB10/160	10	160V	8 x 11 x 3.5	*	.149	.132	.114
609908CM	UVZ2D100MPD	10	200V	10 x 12.5 x 5	.38	.284	.208	.144
330860CM	RB10/250	10	250V	10 x 17 x 5	.22	.207	.181	.162
610036CM	UVZ2W100MHD	10	450V	12.5 x 20 x 5	.82	.62	.464	.332
608059CM	UPW1J120MDD	12	63V	5 x 11 x 2	.25	.174	.12	.096
609626CM	UHE1J150MDD	15	63V	5 x 11 x 2	*	.111	.08	.072
607110CM	UPW1A150MED	15	100V	6.3 x 11 x 2.5	*	.142	.104	.088
608067CM	UPW1J180MDD	18	63V	5 x 11 x 2	.25	.19	.136	.104
607401CM	UPW1A220MDD	22	10V	5 x 11 x 2	*	.126	.09	.085
207870CM	R22B/25	22	25V	5 x 11 x 2	*	.036	.028	.021
158326CM	R22B35	22	35V	5 x 11 x 2	*	.07	.05	.03
607890CM	UPW1H220MDD	22	50V	5 x 11 x 2	.25	.174	.12	.096
606811CM	UHE1H220MDD	22	50V	5 x 11 x 2	*	.111	.08	.072
330801CM	RB22/50	22	50V	6 x 11 x 2.5	*	.067	.055	.044
609650CM	UVZ1J220MDD	22	63V	5 x 11 x 2	.23	.166	.12	.072
608083CM	UPW1J220MED	22	63V	6.3 x 11 x 2.5	.25	.19	.136	.104
609828CM	UVZ2C220MPD	22	160V	10 x 16 x 5	.44	.324	.232	.17
609975CM	UVZ2E220MHD	22	250V	12.5 x 20 x 5	.51	.387	.288	.211
610044CM	UVZ2W220MHD	22	450V	16 x 25 x 7.5	1.16	.87	.66	.47
607929CM	UPW1H270MDD	27	50V	5 x 11 x 2	.25	.174	.12	.096
609713CM	UVZ1V330MDD	33	35V	5 x 11 x 2	.20	.15	.104	.072
608243CM	UPW1V330MDD	33	35V	5 x 11 x 2	.24	.166	.112	.088
607072CM	UHE1V330MDD	33	35V	5 x 11 x 2	*	.111	.08	.072
609570CM	UVZ1H330MDD	33	50V	5 x 11 x 2	.23	.158	.112	.072
607945CM	UPW1H330MED	33	50V	6.3 x 11 x 2.5	.25	.19	.136	.104
609684CM	UVZ1J330MED	33	63V	6.3 x 11 x 2.5	.26	.174	.128	.088
608104CM	UPW1J330MED	33	63V	6.3 x 11 x 2.5	.27	.205	.144	.112
606969CM	UHE1J330MED	33	63V	6.3 x 11 x 2.5	*	.142	.104	.089
609781CM	UVZ2A330MPD	33	100V	8 x 11.5 x 3.5	.30	.229	.16	.12
608734CM	UPW2A330MPD6	33	100V	8 x 15 x 3.5	.43	.316	.232	.194
609991CM	UVZ2E330MHD	33	250V	12.5 x 20 x 5	.59	.442	.32	.235
610061CM	UVZ2W330MHD	33	450V	16 x 35.5 x 7.5	1.46	1.11	.85	.64
608286CM	UPW1V390MDD	39	35V	5 x 11 x 2	.25	.174	.12	.096
607144CM	UHE2A390MPD	39	100V	8 x 15 x 3.5	.21	.166	.128	.104
609502CM	UVZ1C470MDD	47	16V	5 x 11 x 2	*	.134	.096	.064
606723CM	UHE1E470MDD	47	25V	5 x 11 x 2	*	.111	.08	.072
158246CM	R47B25	47	25V	5 x 11 x 2	*	.06	.048	.036
609730CM	UVZ1V470MDD	47	35V	5 x 11 x 2	*	.103	.072	.048

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



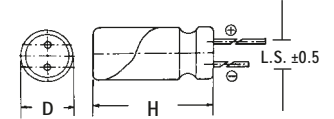


## Aluminum Radial-Lead Electrolytic Capacitors (±20%)



Leakage Current (20°C)	After 1 min.	0.03CV or 4µA, whichever is greater
	After 2 min.	0.01CV or 3µA, whichever is greater









































† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
 Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU











































### 105°C – HT Type General Purpose (Continued)

\* Prepackaged: order in increments of 10, 100 or 500

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
607970CM	UPW1H470MED 	47	50V	6.3 x 11 x 2.5	\$.27	\$.205	\$.144	\$.112
607988CM	UPW1H471MHD 	47	50V	6.3 x 11 x 2.5	.80	.59	.448	.348
330819CM	RB47/50 	47	50V	6 x 11 x 2.5	*.102	.08	.057	
608139CM	UPW1J470MPD 	47	63V	8 x 11.5 x 3.5	.30	.229	.16	.12
609801CM	UVZ2A470MPD 	47	100V	10 x 12.5 x 5	.35	.261	.184	.136
608391CM	UPW2A470MPD 	47	100V	10 x 16 x 5	.47	.356	.264	.219
607161CM	UHE2A470MPD 	47	100V	10 x 12.5 x 5	.21	.166	.128	.104
609879CM	UVZ2C470MHD 	47	160V	12.5 x 20 x 5	.59	.435	.32	.235
610010CM	UVZ2E470MHD 	47	250V	12.5 x 25 x 5	.86	.65	.488	.348
607822CM	UPW1E560MDD 	56	25V	5 x 11 x 2	.24	.166	.12	.096
608008CM	UPW1H560MED 	56	50V	6.3 x 15 x 2.5	.28	.205	.152	.12
606862CM	UHE1H560MED 	56	50V	6.3 x 11 x 2.5	*.142	.112	.088	
608155CM	UPW1J680MPD 	68	63V	8 x 11.5 x 3.5	.39	.284	.208	.162
607507CM	UPW1A820MDD 	82	10V	5 x 11 x 2	.20	.134	.096	.08
607671CM	UPW1C820MDD 	82	16V	5 x 11 x 2	.23	.15	.112	.088
607005CM	UHE1J820MPD 	82	63V	8 x 15 x 3.5	.27	.221	.168	.136
609300CM	UVZ0J101MDD 	100	6.3V	5 x 11 x 2	*.134	.096	.064	
609414CM	UVZ1A101MDD 	100	10V	5 x 11 x 2	*.119	.088	.056	
330704CM	RB100/16 	100	16V	6 x 11 x 2.5	*.067	.055	.044	
606686CM	UHE1E101MED 	100	25V	6.3 x 11 x 2.5	*.142	.112	.088	
330739CM	RB100/25 	100	25V	6 x 11 x 2.5	*.067	.057	.048	
607700CM	UPW1E101MED 	100	25V	6.3 x 11 x 2.5	.27	.205	.152	.104
330747CM	RB100/35 	100	35V	8 x 11 x 3.5	*.084	.08	.074	
158393CM	R100B50 	100	50V	8 x 11 x 3.5	*.09	.07	.055	
607857CM	UPW1H101MPD 	100	50V	8 x 11.5 x 3.5	.39	.284	.208	.162
606774CM	UHE1H101MPD 	100	50V	8 x 11.5 x 3.5	.25	.205	.152	.128
608024CM	UPW1J101MPD 	100	63V	10 x 12.5 x 5	.43	.316	.232	.194
608032CM	UPW1J101MPD6 	100	63V	8 x 15 x 3.5	.43	.316	.232	.194
330827CM	RB100/63 	100	63V	10 x 13 x 5	*.149	.132	.114	
609748CM	UVZ2A101MPD 	100	100V	10 x 20 x 5	.49	.363	.264	.194
609916CM	UVZ2D101MHD 	100	200V	16 x 31.5 x 7.5	1.45	1.10	.83	.59
609967CM	UVZ2E101MHD 	100	250V	16 x 31.5 x 7.5	1.55	1.17	.89	.67
607523CM	UPW1C121MED 	120	16V	6.3 x 11 x 2.5	.25	.174	.12	.096
606619CM	UHE1C121MED 	120	16V	6.3 x 11 x 2.5	*.111	.08	.072	
607726CM	UPW1E121MED 	120	25V	6.3 x 12 x 2.5	.28	.205	.152	.12
606791CM	UHE1H121MPD 	120	50V	8 x 15 x 3.5	.27	.221	.168	.136
606900CM	UHE1J121MPD 	120	63V	8 x 20 x 3.5	.33	.269	.20	.17
607101CM	UHE2A121MPD 	120	100V	10 x 31.5 x 5	.36	.284	.216	.186
608198CM	UPW1V151MPD 	150	35V	8 x 11.5 x 3.5	.30	.229	.16	.12
607048CM	UHE1V151MPD 	150	35V	8 x 11.5 x 3.5	.20	.158	.12	.104
606803CM	UHE1H151MPD	150	50V	10 x 12.5 x 5	.27	.221	.168	.136
608340CM	UPW2A151MHD	150	100V	12.5 x 25 x 5	1.07	.81	.61	.47
607540CM	UPW1C181MED	180	16V	6.3 x 12 x 2.5	.26	.19	.136	.104
207845CM	R180/16	180	16V	6 x 15 x 2.5	*.034	.031	.028	
607881CM	UPW1H181MPD	180	50V	8 x 20 x 3.5	.47	.356	.264	.219
608075CM	UPW1J181MHD	180	63V	12.5 x 15 x 5	.68	.514	.376	.292
606934CM	UHE1J181MPD	180	63V	10 x 20 x 5	.44	.356	.272	.227
607128CM	UHE2A181MHD	180	100V	12.5 x 25 x 5	.44	.356	.272	.227
609334CM	UVZ0J221MDD	220	6.3V	5 x 11 x 2	.22	.142	.104	.072
607259CM	UPW0J221MED	220	6.3V	6.3 x 11 x 2.5	.25	.174	.12	.096
607419CM	UPW1A221MED	220	10V	6.3 x 11 x 2.5	.26	.19	.136	.104
606555CM	UHE1A221MED	220	10V	6.3 x 11 x 2.5	*.134	.104	.088	
311757CM	R220B10	220	10V	6 x 11 x 2.5	.36	.33	.30	.27
609481CM	UVZ1C221MED	220	16V	6.3 x 11 x 2.5	.25	.19	.136	.096
158262CM	R220B25	220	25V	8 x 11 x 3.5	*.12	.09	.07	
608201CM	UPW1V221MPD	220	35V	10 x 12.5 x 5	.44	.324	.232	.194
608219CM	UPW1V221MPD6	220	35V	8 x 15 x 3.5	.44	.324	.232	.194
330755CM	RB220/35S	220	35V	8 x 16 x 3.5	*.149	.132	.114	

Part No.	Cross Ref. No. †	Value (µF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
607902CM	UPW1H221MPD 	220	50V	10 x 16 x 5	\$.47	\$.356	\$.264	\$.219
606820CM	UHE1H221MPD 	220	50V	10 x 16 x 5	.33	.269	.20	.17
158406CM	R220B50 	220	50V	10 x 12 x 5	.34	.31	.24	.18
609668CM	UVZ1J221MPD 	220	63V	10 x 16 x 5	.55	.403	.296	.219
608091CM	UPW1J221MPD6 	220	63V	10 x 25 x 5	.83	.62	.456	.389
609642CM	UHE1J221MPD 	220	63V	10 x 25 x 5	.44	.356	.272	.227
609764CM	UVZ2A221MHD 	220	100V	12.5 x 25 x 5	.83	.62	.464	.34
608358CM	UPW2A221MHD 	220	100V	16 x 25 x 7.5	1.17	.88	.66	.56
609836CM	UVZ2C221MHD 	220	160V	16 x 35.5 x 7.5	1.49	1.14	.87	.65
606951CM	UHE1J271MPD 	270	63V	10 x 31.5 x 5	.59	.474	.36	.308
609369CM	UVZ0J331MED 	330	6.3V	6.3 x 11 x 2.5	.26	.174	.128	.088
607275CM	UPW0J331MED 	330	6.3V	6.3 x 11 x 2.5	.30	.205	.144	.112
606483CM	UHE0J331MED 	330	6.3V	6.3 x 11 x 2.5	*	.126	.096	.08
606651CM	UHE1C331MPD 	330	16V	8 x 11.5 x 5	.25	.205	.152	.128
607566CM	UPW1C331MPD 	330	16V	8 x 11.5 x 3.5	.39	.284	.208	.162
330712CM	RB330/16 	330	16V	8 x 11 x 3.5	*	.102	.08	.057
609537CM	UVZ1E331MPD 	330	25V	10 x 12.5 x 5	.29	.213	.16	.104
607777CM	UPW1E331MPD6 	330	25V	8 x 15 x 3.5	.40	.292	.208	.17
606707CM	UHE1E331MPD 	330	25V	8 x 15 x 3.5	.24	.19	.144	.12
609721CM	UVZ1V331MPD 	330	35V	10 x 12.5 x 5	.34	.253	.176	.128
608251CM	UPW1V331MPD 	330	35V	10 x 16 x 5	.54	.403	.296	.243
608260CM	UPW1V331MPD6 	330	35V	8 x 20 x 3.5	.54	.403	.296	.243
607081CM	UHE1V331MPD 	330	35V	10 x 16 x 5	.38	.308	.232	.194
607953CM	UPW1H331MPD 	330	50V	10 x 20 x 5	.64	.482	.36	.292
606846CM	UHE1H331MPD 	330	50V	10 x 25 x 5	.44	.356	.272	.227
609692CM	UVZ1J331MPD 	330	63V	10 x 20 x 5	.62	.466	.344	.243
608112CM	UPW1J331MHD 	330	63V	12.5 x 20 x 5	.84	.62	.456	.365
607136CM	UHE2A331MHD 	330	100V	12.5 x 40 x 5	1.21	.96	.72	.62
609852CM	UVZ2C331MHD 	330	160V	18 x 40 x 7.5	1.89	1.42	1.08	.81
608294CM	UPW1V391MPD 	390	35V	10 x 16 x 5	.68	.514	.376	.292
608121CM	UPW1J391MHD6 	390	63V	18 x 15 x 7.5	.97	.73	.544	.437
606977CM	UHE1J391MHD 	390	63V	18 x 15 x 7.5	.69	.56	.424	.365
607152CM	UHE2A391MHD 	390	100V	16 x 31.5 x 7.5	1.23	.97	.73	.63
609385CM	UVZ0J471MED 	470	6.3V	6.3 x 11 x 2.5	.25	.19	.136	.096
607460CM	UPW1A471MPD 	470	10V	8 x 11.5 x 3.5	.38	.277	.20	.144
606571CM	UHE1A471MPD 	470	10V	8 x 11.5 x 3.5	.24	.198	.152	.128
607603CM	UPW1C471MPD 	470	16V	10 x 12.5 x 5	.41	.30	.216	.17
607611CM	UPW1C471MPD6 	470	16V	8 x 15 x 3.5	.41	.30	.216	.17
158203CM	R470B16 	470	16V	8 x 11 x 3.5	*	.12	.10	.09
606678CM	UHE1C471MPD 	470	16V	8 x 15 x 3.5	.26	.205	.16	.136
158289CM	R470B25	470	25V	10 x 15 x 3.5	*	.15	.12	.10
606731CM	UHE1E471MPD	470	25V	8 x 20 x 3.5	.38	.308	.232	.194
606740CM	UHE1E471MPD6	470	25V	10 x 16 x 5	.38	.308	.232	.194
607793CM	UPW1E471MPD	470	25V	10 x 16 x 5	.53	.403	.296	.235
607806CM	UPW1E471MPD6	470	25V	8 x 20 x 3.5	.53	.403	.296	.235
608307CM	UPW1V471MPD	470	35V	10 x 20 x 5	.69	.514	.384	.332
330763CM	RB470/35	470	35V	10 x 15 x 5	.28	.244	.219	.152
609609CM	UVZ1H471MHD	470	50V	12.5 x 20 x 5	.82	.62	.464	.324
607988CM	UPW1H471MHD	470	50V	12.5 x 20 x 5	.80	.59	.448	.348
606854CM	UHE1H471MPD	470	50V	10 x 31.5 x 5	.59	.474	.36	.30
608147CM	UPW1J471MHD6	470	63V	12.5 x 31.5 x 5	.97	.73	.55	.437
606985CM	UHE1J471MHD	470	63V	12.5 x 31.5 x 5	.72	.58	.44	.373
158465CM	R470B63	470	63V	12 x 20 x 5	.39	.333	.296	.246
608016CM	UPW1H561MHD	560	50V	12.5 x 25 x 5	.97	.73	.55	.437
606504CM	UHE0J681MPD	680	6.3V	8 x 11.5 x 3.5	.24	.198	.152	.128
606598CM	UHE1A681MPD	680	10V	8 x 15 x 3.5	.25	.205	.152	.128
607654CM	UPW1C681MPD	680	16V	10 x 16 x 5	.51	.387	.288	.235
607662CM	UPW1C681MPD6	680	16V	8 x 20 x 3.5	.51	.387	.288	.235
606766CM	UHE1E681MPD	680	25V	10 x 20 x 5	.44	.356	.272	.227

JAMECO ValuePro

## Aluminum Radial-Lead Electrolytic Capacitors (±20%)

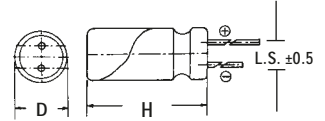


Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA;  
Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

## 105°C – HT Type General Purpose (Continued)

\* Prepackaged: order in increments of 10, 100 or 500



Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
608315CM	UPW1V681MHD R	680	35V	12.5 x 20 x 5	\$.84	\$.60	\$.456	\$.373
607099CM	UHE1V681MPD R	680	35V	10 x 31.5 x 5	.57	.458	.352	.292
606871CM	UHE1H681MHD R	680	50V	12.5 x 31.5 x 5	.72	.58	.44	.373
608163CM	UPW1J681MHD R	680	63V	16 x 25 x 5	1.17	.88	.66	.56
606993CM	UHE1J681MHD R	680	63V	12.5 x 40 x 5	.88	.68	.518	.454
607179CM	UHE2A681MHD R	680	100V	18 x 35.5 x 7.5	1.39	1.09	.83	.71
607355CM	UPW0J821MPD R	820	6.3V	8 x 15 x 3.5	.39	.284	.208	.162
607689CM	UPW1C821MPD R	820	16V	10 x 20 x 5	.60	.45	.336	.292
607013CM	UHE1J821MHD R	820	63V	16 x 31.5 x 7.5	1.23	.97	.73	.63
606432CM	UHE0J102MPD R	1000	6.3V	8 x 15 x 3.5	*	.142	.112	.096
607187CM	UPW0J102MPD R	1000	6.3V	10 x 12.5 x 5	.43	.316	.232	.194
609422CM	UVZ1A102MPD R	1000	10V	10 x 12.5 x 5	.42	.316	.24	.17
607363CM	UPW1A102MPD6 R	1000	10V	8 x 20 x 3.5	.48	.356	.256	.194
606512CM	UHE1A102MPD R	1000	10V	8 x 20 x 3.5	.34	.269	.208	.17
606521CM	UHE1A102MPD6 R	1000	10V	10 x 16 x 5	.34	.269	.208	.17
609465CM	UVZ1C102MPD R	1000	16V	10 x 16 x 5	.50	.316	.28	.203
607515CM	UPW1C102MPD R	1000	16V	10 x 20 x 5	.60	.45	.336	.292
606601CM	UHE1C102MPD R	1000	16V	10 x 20 x 5	.43	.348	.264	.219
330721CM	RB1000/16 R	1000	16V	10 x 20 x 5	.23	.216	.19	.171
158297CM	R1000B25 R	1000	25V	10 x 20 x 5	.35	.29	.25	.19
607718CM	UPW1E102MHD R	1000	25V	12.5 x 20 x 5	.81	.60	.44	.348
608171CM	UPW1V102MHD R	1000	35V	12.5 x 25 x 5	.94	.70	.528	.454
607021CM	UHE1V102MHD R	1000	35V	12.5 x 25 x 5	.69	.56	.424	.365
158377CM	R1000B35 R	1000	35V	10 x 20 x 5	.49	.45	.40	.35
609553CM	UVZ1H102MHD R	1000	50V	12.5 x 25 x 5	.79	.58	.432	.316
607865CM	UPW1H102MHD R	1000	50V	16 x 25 x 7.5	1.17	.88	.66	.56
606782CM	UHE1H102MHD R	1000	50V	12.5 x 40 x 5	.87	.68	.518	.454
608041CM	UPW1J102MHD R	1000	63V	16 x 31.5 x 7.5	1.55	1.16	.88	.70
606889CM	UHE1J102MHD R	1000	63V	12.5 x 40 x 5	1.23	.97	.73	.63
606897CM	UHE1J102MHD6 R	1000	63V	18 x 31.5 x 7.5	1.23	.97	.73	.63
609756CM	UVZ2A102MHD R	1000	100V	18 x 40 x 7.5	1.89	1.44	1.10	.82
606459CM	UHE0J122MPD R	1200	6.3V	8 x 20 x 3.5	.30	.245	.184	.152
607216CM	UPW0J122MPD R	1200	6.3V	8 x 20 x 3.5	.44	.324	.232	.178
607224CM	UPW0J122MPD6 R	1200	6.3V	10 x 16 x 5	.47	.356	.264	.211
607380CM	UPW1A122MPD R	1200	10V	10 x 20 x 5	.53	.403	.296	.235
606547CM	UHE1A122MPD R	1200	10V	10 x 20 x 5	.38	.308	.232	.194
606627CM	UHE1C122MPD R	1200	16V	10 x 25 x 5	.39	.316	.24	.203
606694CM	UHE1E122MHD R	1200	25V	18 x 15 x 7.5	.64	.521	.392	.332
608180CM	UPW1V122MHD R	1200	35V	12.5 x 31.5 x 5	1.17	.88	.66	.56
607030CM	UHE1V122MHD R	1200	35V	12.5 x 31.5 x 5	.88	.68	.518	.454
606918CM	UHE1J122MHD R	1200	63V	16 x 40 x 7.5	1.39	1.09	.83	.71
607232CM	UPW0J152MPD R	1500	6.3V	10 x 20 x 5	.47	.356	.264	.219
607398CM	UPW1A152MPD6 R	1500	10V	10 x 25 x 5	.55	.419	.304	.235
607531CM	UPW1C152MHD R	1500	16V	12.5 x 20 x 5	.84	.62	.456	.365
606635CM	UHE1C152MPD R	1500	16V	10 x 31.5 x 5	.57	.458	.352	.30
607734CM	UPW1E152MHD R	1500	25V	16 x 25 x 7.5	.94	.70	.528	.429
607742CM	UPW1E152MHD6 R	1500	25V	12.5 x 25 x 5	.94	.70	.528	.429
607873CM	UPW1H152MHD R	1500	50V	16 x 31.5 x 7.5	1.55	1.16	.88	.70
606467CM	UHE0J182MHD R	1800	6.3V	12.5 x 15 x 5	.35	.284	.216	.186
607751CM	UPW1E182MHD R	1800	25V	12.5 x 31.5 x 5	1.17	.88	.66	.56
607056CM	UHE1V182MHD R	1800	35V	12.5 x 40 x 5	.92	.71	.54	.47
607267CM	UPW0J222MPD6 R	2200	6.3V	10 x 25 x 5	.62	.466	.344	.292
609342CM	UVZ0J222MPD R	2200	6.3V	10 x 20 x 5	.51	.356	.248	.203
606475CM	UHE0J222MPD R	2200	6.3V	10 x 25 x 5	.43	.348	.264	.219
607427CM	UPW1A222MHD R	2200	10V	12.5 x 20 x 5	.79	.59	.44	.348
606563CM	UHE1A222MPD R	2200	10V	10 x 31.5 x 5	.55	.442	.28	.20
609490CM	UVZ1C222MHD R	2200	16V	12.5 x 20 x 5	.80	.59	.448	.324
606643CM	UHE1C222MHD R	2200	16V	12.5 x 25 x 5	.69	.56	.424	.365

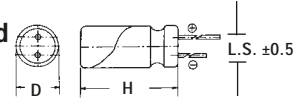
Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
609705CM	UVZ1V222MHD R	2200	35V	16 x 25 x 7.5	\$1.34	\$1.02	\$.76	\$.543
608227CM	UPW1V222MHD R	2200	35V	18 x 25 x 7.5	1.38	1.06	.81	.64
608235CM	UPW1V222MHD6 R	2200	35V	8 x 15 x 3.5	1.38	1.06	.81	.64
607064CM	UHE1V222MHD R	2200	35V	16 x 31.5 x 7.5	1.24	.98	.73	.64
607911CM	UPW1H222MHD R	2200	50V	18 x 35.5 x 7.5	1.95	1.46	1.12	.91
606838CM	UHE1H222MHD6 R	2200	50V	18 x 35.5 x 7.5	1.49	1.14	.87	.83
158431CM	R2200B50 R	2200	50V	16 x 35 x 7.5	.99	.89	.71	.53
609676CM	UVZ1J222MHD R	2200	63V	18 x 35.5 x 7.5	1.65	1.26	.96	.73
607435CM	UPW1A272MHD R	2700	10V	12.5 x 25 x 5	.82	.61	.448	.365
607558CM	UPW1C272MHD R	2700	16V	16 x 31.5 x 7.5	1.22	.92	.70	.56
607769CM	UPW1E272MHD R	2700	25V	16 x 25 x 7.5	1.38	1.06	.81	.64
609377CM	UVZ0J332MPD R	3300	6.3V	10 x 20 x 5	.56	.419	.312	.227
607283CM	UPW0J332MHD R	3300	6.3V	12.5 x 20 x 5	.82	.61	.448	.356
606491CM	UHE0J332MHD R	3300	6.3V	12.5 x 20 x 5	.57	.458	.352	.292
609449CM	UVZ1A332MHD R	3300	10V	12.5 x 20 x 5	.82	.59	.448	.324
607443CM	UPW1A332MHD6 R	3300	10V	12.5 x 31.5 x 5	.69	.521	.384	.292
607574CM	UPW1C332MHD R	3300	16V	16 x 25 x 7.5	1.26	.95	.71	.543
607582CM	UPW1C332MHD6 R	3300	16V	12.5 x 35.5 x 5	1.26	.95	.71	.543
606660CM	UHE1C332MHD R	3300	16V	12.5 x 35.5 x 5	.92	.71	.54	.47
607785CM	UPW1E332MHD6 R	3300	25V	18 x 25 x 7.5	1.45	1.10	.84	.67
606715CM	UHE1E332MHD R	3300	25V	16 x 31.5 x 7.5	1.24	.98	.73	.64
608278CM	UPW1V332MHD R	3300	35V	18 x 35.5 x 7.5	1.79	1.35	1.03	.84
609588CM	UVZ1H332MHD R	3300	50V	18 x 35.5 x 7.5	2.15	1.60	1.24	.92
607291CM	UPW0J392MHD R	3900	6.3V	12.5 x 25 x 5	.91	.68	.52	.446
607451CM	UPW1A392MHD R	3900	10V	12.5 x 35.5 x 5	.93	.70	.52	.437
607591CM	UPW1C392MHD R	3900	16V	16 x 25 x 7.5	1.44	1.10	.83	.64
609393CM	UVZ0J472MHD R	4700	6.3V	12.5 x 20 x 5	.83	.62	.472	.34
607304CM	UPW0J472MHD R	4700	6.3V	16 x 25 x 7.5	.93	.70	.52	.437
607312CM	UPW0J472MHD6 R	4700	6.3V	12.5 x 31.5 x 5	.93	.70	.52	.437
607478CM	UPW1A472MHD R	4700	10V	16 x 25 x 7.5	1.14	.86	.64	.51
606580CM	UHE1A472MHD R	4700	10V	12.5 x 35.5 x 5	.88	.68	.518	.454
609511CM	UVZ1C472MHD R	4700	16V	16 x 25 x 7.5	1.46	1.14	.81	.61
607620CM	UPW1C472MHD R	4700	16V	16 x 31.5 x 7.5	1.44	1.10	.83	.64
607638CM	UPW1C472MHD6 R	4700	16V	18 x 25 x 7.5	1.44	1.10	.83	.64
606758CM	UHE1E472MHD R	4700	25V	16 x 40 x 7.5	1.55	1.19	.91	.78
607814CM	UPW1E472MHD R	4700	25V	18 x 35.5 x 7.5	1.46	1.12	.85	.75
607321CM	UPW0J562MHD R	5600	6.3V	12.5 x 35.5 x 5	1.17	.88	.66	.56
607646CM	UPW1C562MHD R	5600	16V	16 x 35.5 x 7.5	1.55	1.16	.88	.70
609406CM	UVZ0J682MHD R	6800	6.3V	12.5 x 25 x 5	1.13	.86	.64	.462
607339CM	UPW0J682MHD R	6800	6.3V	16 x 25 x 7.5	1.19	.90	.68	.55
607347CM	UPW0J682MHD6 R	6800	6.3V	18 x 20 x 7.5	1.19	.90	.68	.55
609457CM	UVZ1A682MHD R	6800	10V	16 x 25 x 7.5	1.49	1.14	.87	.62
607486CM	UPW1A682MHD R	6800	10V	16 x 31.5 x 7.5	1.55	1.16	.88	.70
607494CM	UPW1A682MHD6 R	6800	10V	18 x 25 x 7.5	1.55	1.16	.88	.70
609529CM	UVZ1C682MHD R	6800	16V	16 x 35.5 x 7.5	1.79	1.35	1.03	.76
607697CM	UPW1C822MHD R	8200	16V	18 x 35.5 x 7.5	1.89	1.43	1.09	.95
609318CM	UVZ0J103MHD R	10,000	6.3V	16 x 25 x 7.5	1.41	1.08	.83	.62
606441CM	UHE0J103MHD6 R	10,000	6.3V	18 x 15 x 7.5	1.30	1.02	.77	.66
607195CM	UPW0J103MHD R	10,000	6.3V	16 x 31.5 x 7.5	1.55	1.16	.88	.70
607208CM	UPW0J103MHD6 R	10,000	6.3V	18 x 25 x 7.5	1.55	1.16	.88	.70
607371CM	UPW1A103MHD R	10,000	10V	18 x 35.5 x 7.5	1.89	1.43	1.09	.95
606539CM	UHE1A103MHD R	10,000	10V	16 x 40 x 7.5	1.45	1.11	.85	.82
609473CM	UVZ1C103MHD R	10,000	16V	18 x 35.5 x 7.5	1.89	1.44	1.09	.82
609326CM	UPW0J153MHD R	15,000	6.3V	16 x 35.5 x 7.5	1.79	1.35	1.03	.73
607241CM	UPW0J153MHD R	15,000	6.3V	18 x 35.5 x 7.5	1.89	1.43	1.09	.95
609431CM	UVZ1A153MHD R	15,000	10V	18 x 35.5 x 7.5	1.89	1.44	1.09	.82
609351CM	UVZ0J223MHD R	22,000	6.3V	18 x 40 x 7.5	2.09	1.58	1.22	.92

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## Aluminum Radial-Lead Electrolytic Capacitors (±20%) Continued

Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SG; Panasonic: KA/KS/SU

85°C – General Purpose

**Quantity SAVE**

### Other Manufacturers — Great Deals\*

* Prepackaged: order in increments of 10, 100 or 500									* Prepackaged: order in increments of 10, 100 or 500								
Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing				Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500						1	10	100	500
29831CM	R1/50	1	50V	5 x 11 x 2.0	*	\$.057	\$.048	\$.038	93778CM	R220/50	220	50V	10 x 12 x 5.0	*	\$.15	\$.12	\$.09
93729CM	R2.2/50	2.2	50V	5 x 11 x 2.0	*	.034	.03	.023	198889CM	R330J/16	330	16V	8 x 11 x 3.5	*	.073	.065	.049
135183CM	R3.3/50	3.3	50V	5 x 11 x 2.0	*	.032	.028	.022	93796CM	R330/25	330	25V	10 x 12 x 5.0	*	.126	.107	.08
31000CM	R4.7/50	4.7	50V	5 x 11 x 2.0	*	.038	.033	.026	93809CM	R470/16	470	16V	8 x 11 x 3.5	*	.099	.095	.089
29891CM	R10/50	10	50V	5 x 11 x 2.0	*	.06	.05	.04	31181CM	R470/25	470	25V	10 x 12 x 5.0	*	.12	.10	.09
93737CM	R22/50	22	50V	5 x 11 x 2.0	*	.06	.05	.035	395591CM	R470825-OM	470	25V	10 x 12 x 5.0	*	.12	.11	.09
93745CM	R33/50	33	50V	5 x 11 x 2.0	*	.05	.045	.04	93817CM	R470/35	470	35V	10 x 16 x 5.0	*	.153	.135	.117
135301CM	R47/10	47	10V	5 x 12 x 2.0	*	.036	.027	.02	93825CM	R470/50	470	50V	12 x 20 x 5.0	.29	.27	.19	.13
93753CM	R47/25	47	25V	5 x 11 x 2.0	*	.048	.033	.026	30015CM	R1000/16	1000	16V	10 x 16 x 5.0	*	.178	.156	.133
31114CM	R47/50	47	50V	6 x 11 x 2.5	*	.06	.05	.045	93833CM	R1000/25	1000	25V	10 x 20 x 5.0	.41	.32	.29	.16
207811CM	R100/10	100	10V	5 x 11 x 2.0	*	.072	.054	.045	93841CM	R1000/50	1000	50V	12 x 25 x 5.0	.52	.46	.41	.34
93761CM	R100/25	100	25V	6 x 11 x 2.5	*	.07	.05	.035	133145CM	R2200/16	2200	16V	12 x 20 x 5.0	.32	.28	.24	.22
29962CM	R100/50	100	50V	8 x 11 x 3.5	*	.07	.06	.05	30533CM	R2200/25	2200	25V	12 x 25 x 5.0	.55	.49	.40	.30
30496CM	R220/25	220	25V	8 x 11 x 3.5	*	.08	.06	.05	30891CM	R3300/25	3300	25V	16 x 25 x 7.5	.71	.65	.49	.43
93770CM	R220/35	220	35V	10 x 12 x 5.0	*	.09	.08	.07	93850CM	R4700/25	4700	25V	16 x 31 x 7.5	.99	.89	.80	.66
									163301CM	R4700/50	4700	50V	22 x 42 x 10.0	1.99	1.79	1.50	1.31
									31510CM	R6800/16	6800	16V	16 x 35 x 7.5	1.09	.98	.85	.70

\* Capacitor dimensions and styles may vary.

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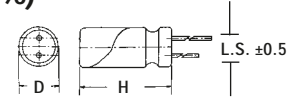


## Aluminum Radial-Lead Non-Polarized Electrolytic Capacitors (±20%)

85°C – General Purpose



Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater



† CROSS REFERENCES: Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Nichicon: LB/VX/USA/SR/SA; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SG; Panasonic: KA/KS/SU

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing				Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500						1	10	100	500
330931CM	RN0.47/50	0.47	50V	5 x 11 x 2.0	\$.28	\$.252	\$.19	\$.152	330982CM	RN10/50	10	50V	8 x 11 x 3.5	\$.22	\$.198	\$.114	\$.105
330940CM	RN1/50	1	50V	5 x 11 x 2.0	*	.159	.085	.076	331096CM	RN10/100	10	100V	8 x 11 x 3.5	.22	.198	.114	.105
331053CM	RN1/100	1	100V	5 x 11 x 2.0	*	.169	.086	.076	330878CM	RN22/16	22	16V	5 x 11 x 2.0	.31	.279	.219	.181
330958CM	RN2.2/50	2.2	50V	5 x 11 x 2.0	*	.159	.085	.076	330923CM	RN22/25	22	25V	5 x 11 x 2.0	.32	.288	.259	.233
331029CM	RN2.2/63	2.2	63V	5 x 11 x 2.0	.28	.243	.219	.197	330991CM	RN22/50	22	50V	6 x 11 x 2.5	.33	.31	.171	.162
331061CM	RN2.2/100	2.2	100V	5 x 11 x 2.0	*	.169	.086	.076	331037CM	RN22/63	22	63V	8 x 11 x 3.5	.45	.409	.368	.331
330966CM	RN3.3/50	3.3	50V	5 x 11 x 2.0	*	.171	.094	.086	331109CM	RN22/100	22	100V	10 x 15 x 5.0	.33	.297	.171	.161
331070CM	RN3.3/100	3.3	100V	5 x 11 x 2.0	*	.189	.095	.086	330886CM	RN47/16	47	16V	6 x 11 x 2.5	.33	.297	.267	.242
330907CM	RN4.7/25	4.7	25V	5 x 11 x 2.0	.28	.243	.219	.197	331002CM	RN47/50	47	50V	8 x 11 x 3.5	.46	.414	.314	.285
330974CM	RN4.7/50	4.7	50V	5 x 11 x 2.0	*	.171	.094	.086	331117CM	RN47/100	47	100V	10 x 20 x 5.0	.46	.414	.314	.285
331088CM	RN4.7/100	4.7	100V	6 x 11 x 2.5	*	.188	.095	.086	330894CM	RN100/16	100	16V	8 x 11 x 3.5	.45	.405	.365	.328
330915CM	RN10/25	10	25V	5 x 11 x 2.0	.28	.243	.219	.197	331011CM	RN100/50	100	50V	10 x 17 x 5.0	.69	.621	.467	.428
									331045CM	RN220/63	220	63V	5 x 11 x 2.0	.69	.62	.465	.428

### 85°C – Non-Polarized High-Frequency (Horizontal Deflection)

Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing				Part No.	Cross Ref. No. †	Value (μF)	Voltage	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500						1	10	100	500
331125CM	RN1/25S	1	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166	331168CM	RN5.6/25S	5.6	25V	8 x 11 x 3.5	\$.37	\$.348	\$.186	\$.166
331205CM	RN1/50S	1	50V	8 x 11 x 3.5	.37	.348	.186	.166	331248CM	RN5.6/50S	5.6	50V	8 x 14 x 3.5	.45	.423	.226	.202
331133CM	RN2.2/25S	2.2	25V	8 x 11 x 3.5	.37	.348	.186	.166	331176CM	RN6.8/25S	6.8	25V	8 x 11 x 3.5	.37	.348	.186	.166
331213CM	RN2.2/50S	2.2	50V	8 x 11 x 3.5	.37	.348	.186	.166	331256CM	RN6.8/50S	6.8	50V	8 x 14 x 3.5	.45	.423	.226	.202
331141CM	RN3.3/25S	3.3	25V	8 x 11 x 3.5	.37	.348	.186	.166	331184CM	RN8.2/25S	8.2	25V	8 x 14 x 3.5	.45	.423	.226	.202
331221CM	RN3.3/50S	3.3	50V	8 x 11 x 3.5	.37	.348	.186	.166	331264CM	RN8.2/50S	8.2	50V	10 x 15 x 5.0	.58	.548	.293	.262
331150CM	RN4.7/25S	4.7	25V	8 x 11 x 3.5	.37	.348	.186	.166	331192CM	RN10/25S	10	25V	8 x 14 x 3.5	.45	.423	.226	.202
331230CM	RN4.7/50S	4.7	50V	8 x 11 x 3.5	.37	.348	.186	.166	331272CM	RN10/50S	10	50V	10 x 15 x 5.0	.58	.548	.293	.262

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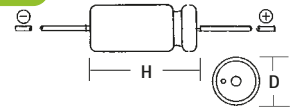
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 Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).



## Aluminum Axial-Lead Electrolytic Capacitors

General purpose 85°C maximum

Quantity SAVE



Operating temperature range	-40°C to +85°C
Leakage Current (After 2 minutes 20°C)	0.02CV or 2µA, whichever is greater

† CROSS REFERENCES: Elna: RE2; IC: RAR; Marcon: SEM; Nichicon: LB/VX; Rubycon: TWSS; Sprague: 501D/513D; UCC: SME; Panasonic: SU

\* Prepackaged: order in increments of 10, 100 or 500

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
10867CM	A1/50	1	50V	5 x 13	*	\$ .15	\$ .104	\$ .078
93570CM	A2.2/50	2.2	50V	6 x 13	*	.11	.10	.09
199419CM	A3.3/50	3.3	50V	6 x 12	*	.17	.12	.089
11077CM	A4.7/50	4.7	50V	6 x 13	*	.11	.097	.073
331301CM	AB4.7/63	4.7	63V	6 x 12	.23	.197	.143	.105
199427CM	A6.8/50	6.8	50V	6 x 12	*	.17	.12	.089
199144CM	A10J/16	10	16V	6 x 12	.20	.166	.12	.077
199259CM	A10J/25	10	25V	5 x 12	*	.174	.15	.139
93578CM	A10/35	10	35V	6 x 13	*	.133	.107	.08
10883CM	A10/50	10	50V	6 x 12	*	.167	.133	.089
331310CM	AB10/63	10	63V	6 x 12	*	.15	.128	.105
331424CM	AB10/450	10	450V	13 x 25	1.25	1.04	.94	.86
199152CM	A22J/16	22	16V	6 x 12	*	.174	.126	.08
199267CM	A22J/25	22	25V	6 x 12	*	.197	.141	.105
10998CM	A22/50	22	50V	6 x 12	*	.19	.14	.10
331328CM	AB22/63	22	63V	8 x 12	.22	.218	.173	.154
331387CM	AB22/160	22	160V	10 x 17	.80	.68	.62	.56
331432CM	AB22/450	22	450V	16 x 26	1.99	1.66	1.51	1.37
199161CM	A33J/16	33	16V	6 x 13	*	.12	.111	.103
199347CM	A33J/35	33	35V	6.3 x 16	*	.087	.078	.07
199435CM	A33J/50	33	50V	6.3 x 16	*	.17	.136	.102
199179CM	A47J/16	47	16V	6.3 x 12	*	.134	.114	.085
135320CM	A47/25	47	25V	8 x 16	*	.15	.14	.096
199355CM	A47J/35	47	35V	6.3 x 16	*	.16	.119	.089
11106CM	A47/50	47	50V	8 x 16	*	.19	.14	.10
331336CM	AB47/63	47	63V	8 x 16	*	.171	.16	.13
331361CM	AB47/100	47	100V	10 x 17	.34	.273	.247	.19
331395CM	AB47/160	47	160V	13 x 21	.75	.57	.368	.331
331441CM	AB47/450	47	450V	16 x 30	3.25	2.74	2.49	2.26
199187CM	A100J/16	100	16V	6.3 x 16	.24	.22	.19	.16
199283CM	A100J/25	100	25V	8 x 16	.25	.20	.18	.15
10912CM	A100/50	100	50V	8 x 20	.23	.205	.176	.132
331344CM	AB100/63	100	63V	10 x 17	.37	.291	.257	.219
331379CM	AB100/100	100	100V	10 x 20	.85	.73	.57	.47

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331408CM	AB100/160	100	160V	16 x 26	\$1.79	\$1.53	\$1.39	\$1.26
331416CM	AB100/250	100	250V	16 x 30	2.45	2.09	1.93	1.80
331299CM	AB150/50	150	50V	10 x 17	.96	.86	.69	.65
199195CM	A220J16	220	16V	8 x 16	*	.18	.152	.122
199291CM	A220J/25	220	25V	8 x 16	.25	.21	.18	.12
199363CM	A220J/35	220	35V	10 x 17	*	.23	.208	.162
11018CM	A220/50	220	50V	10 x 17	.27	.229	.224	.192
331352CM	AB220/63	220	63V	10 x 20	.55	.461	.409	.342
199208CM	A330J/16	330	16V	8 x 16	*	.198	.168	.126
199371CM	A330J/35	330	35V	10 x 17	.44	.367	.333	.25
199451CM	A330J/50	330	50V	13 x 22	.42	.379	.303	.227
199216CM	A470J/16	470	16V	8 x 16	.34	.273	.245	.184
199312CM	A470J/25	470	25V	10 x 17	.44	.367	.333	.235
199380CM	A470J/35	470	35V	10 x 21	.50	.404	.371	.278
11122CM	A470/50	470	50V	13 x 21	.49	.441	.34	.255
199460CM	A680J/50	680	50V	16 x 25	.85	.73	.57	.428
331281CM	AB1000/10	1000	10V	10 x 17	.51	.414	.38	.304
93632CM	A1000/16	1000	16V	10 x 20	.51	.46	.42	.40
10955CM	A1000/25	1000	25V	10 x 20	.66	.54	.49	.38
93650CM	A1000/35	1000	35V	13 x 25	.94	.83	.655	.545
147257CM	A1000/50	1000	50V	16 x 25	.88	.77	.66	.545
11034CM	A2200/16	2200	16V	13 x 21	.51	.446	.354	.33
199321CM	A2200J/25	2200	25V	16 x 28	1.09	.90	.78	.59
93657CM	A2200/35	2200	35V	16 x 30	1.25	1.10	.99	.85
199478CM	A2200J/50	2200	50V	18 x 42	2.29	1.93	1.79	1.65
93666CM	A3300/25	3300	25V	16 x 32	1.10	.99	.88	.77
199398CM	A3300J/35	3300	35V	18 x 37	3.39	2.93	2.29	1.72
199486CM	A3300J/50	3300	50V	22 x 43	\$2.95	2.19	1.96	1.59
199232CM	A4700J/16	4700	16V	16 x 30	1.45	1.30	1.17	1.06
93674CM	A4700/25	4700	25V	16 x 30	1.69	1.49	1.29	.99
199401CM	A4700J/35	4700	35V	18 x 40	2.79	2.51	2.01	1.51
158810CM	A4700A50	4700	50V	25 x 43	2.79	2.29	2.09	1.79
199241CM	A6800J/16	6800	16V	16 x 33	\$2.15	1.24	1.11	.90
199399CM	A6800J/25	6800	25V	18 x 40	2.35	2.12	1.69	1.27
93682CM	A10000/16	10000	16V	16 x 33	2.49	2.28	1.83	1.32

## Other Manufacturers — Great Deals\*

10866CM	A1/50	1	50V	5 x 13	*	\$ .111	\$ .095	\$ .079
93569CM	A2.2/50	2.2	50V	6 x 13	*	.14	.115	.095
11076CM	A4.7/50	4.7	50V	6 x 13	*	.162	.117	.099
93577CM	A10/35	10	35V	6 x 13	*	.155	.134	.119
10882CM	A10/50	10	50V	6 x 12	*	.15	.12	.08
10997CM	A22/50	22	50V	6 x 12	*	.17	.126	.09
135319CM	A47/25	47	25V	8 x 16	*	.135	.115	.086
11105CM	A47/50	47	50V	8 x 16	*	.15	.136	.102
93551CM	A100/35	100	35V	8 x 16	.27	.22	.19	.15
10911CM	A100/50	100	50V	8 x 20	.23	.205	.176	.138

11017CM	A220/50	220	50V	10 x 20	\$ .33	\$ .277	\$ .252	\$ .189
11121CM	A470/50	470	50V	13 x 31	.53	.44	.38	.31
93631CM	A1000/16	1000	16V	13 x 27	.46	.41	.38	.36
10954CM	A1000/25	1000	25V	13 x 31	.59	.49	.33	.295
93649CM	A1000/35	1000	35V	13 x 26	.85	.75	.59	.49
147256CM	A1000/50	1000	50V	16 x 31	.79	.71	.57	.43
11033CM	A2200/16	2200	16V	16 x 40	.79	.71	.65	.59
93665CM	A3300/25	3300	25V	16 x 32	1.19	1.07	.95	.83
93673CM	A4700/25	4700	25V	22 x 39	1.55	1.34	1.16	.89
93681CM	A10000/16	10000	16V	22 x 51	2.25	2.05	1.85	1.49

\* Capacitor dimensions and styles may vary

## Aluminum Axial-Lead Non-Polarized Electrolytic Capacitors

85°C – General purpose



Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331521CM	AN1/50	1	50V	6 x 16	\$ .35	\$ .342	\$ .266	\$ .209
331635CM	AN1/100	1	100V	6 x 16	.44	.428	.314	.247
331539CM	AN2.2/50	2.2	50V	6 x 16	.40	.38	.295	.228
331547CM	AN3.3/50	3.3	50V	6 x 16	.42	.399	.314	.238
331555CM	AN4.7/50	4.7	50V	6 x 16	.45	.428	.333	.266
331643CM	AN4.7/100	4.7	100V	6 x 16	.69	.66	.504	.38
331483CM	AN10/25	10	25V	6 x 16	.39	.37	.356	.284
331563CM	AN10/50	10	50V	6 x 16	.57	.542	.418	.333
331651CM	AN10/100	10	100V	8 x 16	.73	.69	.532	.504
331459CM	AN22/16	22	16V	6 x 16	.39	.351	.316	.284
331491CM	AN22/25	22	25V	6 x 16	.43	.387	.348	.313
331571CM	AN22/50	22	50V	6 x 16	.75	.71	.545	.437
331627CM	AN22/63	22	63V	8 x 16	.75	.71	.55	.437

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) DxH	Pricing			
					1	10	100	500
331660CM	AN22/100	22	100V	10 x 18	\$ .86	\$ .77	\$ .69	\$ .62
331580CM	AN33/50	33	50V	8 x 16	.69	.68	.67	.51
331678CM	AN33/100	33	100V	10 x 20	.87	.83	.67	.51
331504CM	AN47/25	47	25V	6 x 16	.51	.459	.413	.372
331598CM	AN47/50	47	50V	8 x 16	.85	.80	.74	.59
331686CM	AN47/100	47	100V	10 x 21	1.39	1.25	1.13	1.01
331467CM	AN100/16	100	16V	8 x 16	.53	.477	.429	.386
331512CM	AN100/25	100	25V	8 x 20	.57	.513	.462	.416
331601CM	AN100/50	100	50V	10 x 18	.91	.87	.83	.79
331694CM	AN100/100	100	100V	13 x 25	2.35	2.12	1.91	1.72
331475CM	AN220/16	220	16V	8 x 20	.75	.68	.61	.55
331619CM	AN220/50	220	50V	13 x 25	1.39	1.32	.99	.79

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## CDE Polyester & Polypropylene Film/Foil Capacitors

### Type PVC ±10%

- Rugged epoxy case material meets UL94V-0
- Non-inductively wound
- Crimped leads for secure PCB insertion
- Voltage range: polyester – 100VDC to 1000VDC; polypropylene – 1200VDC to 2000VDC
- Insulation resistance: polyester – 100,000MΩ for ≤0.25μF, 25,000MΩ >0.25μF; polypropylene – 400,000MΩ =< 0.50μF, 200,000MΩ >0.50μF
- Dielectric withstanding voltage: 250% rated voltage for <1000V, 200% rated voltage for ≥1000V

**NEW**



200VDC/140VAC, 60Hz

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Product No.	Value (μF)	L x Dia. (mm)	Spacing	1	10	100	1000
536930CM	PVC211▲	0.10	17.8 x 8.4	12.7mm	*	\$1.01	\$ .91	\$ .86
536921CM	PVC201▲	0.10	30.5 x 10.2	24.6mm	.82	.75	.72	.68

400VDC/200VAC, 60Hz

Part No.	Product No.	Value (μF)	L x Dia. (mm)	Spacing	1	10	100	1000
536948CM	PVC401▲	0.10	30.5 x 13.5	24.6mm	\$ .82	\$ .71	\$ .69	\$ .68

600VDC/200VAC, 60Hz

Part No.	Product No.	Value (μF)	L x Dia. (mm)	Spacing	1	10	100	1000
536981CM	PVC611▲	0.01	22.9 x 10.2	17.5mm	\$ .60	\$ .56	\$ .53	\$ .504
536999CM	PVC6147	0.047	30.5 x 14.2	24.6mm	.88	.83	.79	.76
536956CM	PVC601▲	0.10	130.5 x 16.5	24.6mm	1.16	1.08	1.02	.97
536964CM	PVC6022▲	0.22	40.6 x 20.3	34.1mm	2.15	2.02	1.85	1.76
536972CM	PVC6025▲	0.25	40.6 x 20.3	34.1mm	2.85	2.52	2.45	2.33

1000VDC/200VAC, 60Hz

Part No.	Product No.	Value (μF)	L x Dia. (mm)	Spacing	1	10	100	1000
536884CM	PVC10010▲	0.10	40.6 x 21.6	34.1mm	\$2.09	\$1.97	\$1.57	\$1.49

1600VDC/475VAC, 60Hz

Part No.	Product No.	Value (μF)	L x Dia. (mm)	Spacing	1	10	100	1000
536892CM	PVC1611▲	0.01	31.8 x 13.5	24.6mm	\$ .81	\$ .76	\$ .72	\$ .68
536905CM	PVC16147▲	0.047	41.9 x 20.3	34.1mm	1.99	1.90	1.55	1.47

## CDE Aluminum Electrolytic Capacitors

### Type CGH High Voltage Screw

#### Terminal Computer Grade

- Voltage range: 250-500VDC
- Temp. range: -40° to 85°C

### Type CGO Computer Grade

- Voltage range: 5-55VDC
- Temp. range: -40° to 85°C

### Type CGR High Temperature Screw

#### Terminal Computer Grade

- Voltage range: 7.5-200VDC
- Temp. range: -40° to 105°C

### Type CGS Screw Terminal Computer Grade

- Voltage range: 6.3-500VDC
- Temp. range: -40° to 85°C

### Type SEK/SK Radial Lead

- Voltage range: 6.3-450VDC
- Tolerance: ±20%

### Type SKA Axial Lead

- Tolerance: ±20%
- High CV
- Voltage range: 6.3-450VDC

### Type TC Axial Lead

- Voltage range: 16-450VDC
- Operating temp.: -40°C to 85°C

### Type TCG Axial Lead Computer Grade

- Voltage range: 6-450VDC
- Operating temp.: -40°C to 85°C

### Type TKA Axial Lead

- Voltage range: 6.3-450VDC
- Operating temp.: -40°C to 105°C

### Type SN 85°C Non-Polar

- Voltage range: 6.3-85VNP
- Operating temp.: -40°C to 105°C

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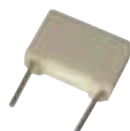
## CDE Metallized Polyester Radial-Lead Capacitors

### Type 167/184 ±5%

- Rugged plastic case
- Case and epoxy fill meets UL94V-0
- Length: 10.5mm
- 7.5mm (0.3") lead spacing
- Operating temperature range: -55°C to 125°C
- Dielectric withstanding voltage: 1.6 x rated voltage for 2 seconds
- Good for general purpose applications such as bypass, decoupling, energy storage/discharge and arc suppression

• Non-polarized

**NEW**



Part No.	Product No.	Value (μF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528391CM	167104J63A▲	0.10	63/40	3.5 x 7	\$ .38	\$ .36	\$ .342	\$ .295
528382CM	167104J100A▲	0.10	100/63	3.5 x 7	.37	.353	.334	.292
528403CM	167224J100C▲	0.22	100/63	5 x 11	.52	.492	.467	.315
528366CM	167103J250A	0.01	250/160	3.5 x 7	.30	.282	.268	.219
528374CM	167103J400A▲	0.01	400/200	3.5 x 7	.46	.435	.413	.321
528358CM	167102J630A▲	0.001	630/220	3.5 x 7	.35	.334	.317	.214

### Type 168/185 ±5%

- Rugged plastic case
- Case and epoxy fill meets UL94V-0
- 5mm (0.197") lead spacing
- Non-polarized
- Non-inductively wound
- Length: 7.2mm
- Low leakage
- Good for general purpose applications such as bypass, decoupling, energy storage/discharge and arc suppression

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Product No.	Value (μF)	Volt. (VDC/VAC)	Th. x H (mm)	1	10	100	500
528438CM	168104J50A▲	0.10	50/30	2.5 x 6.5	*	\$ .167	\$ .159	\$ .15
528526CM	168334J50C▲	0.33	50/30	3.5 x 7.5	.42	.399	.379	.27
528462CM	168105J50C▲	1.00	50/30	6.0 x 11.0	.81	.77	.73	.514
528569CM	168473J63A▲	0.047	63/40	2.5 x 6.5	*.175	.166	.157	
528446CM	168104J63A▲	0.10	63/40	2.5 x 6.5	*.167	.159	.15	
528454CM	168104K63A▲	0.10	63/40	2.5 x 6.5	.22	.207	.197	.175
528497CM	168224J63C▲	0.22	63/40	3.5 x 7.5	.38	.36	.342	.304
528534CM	168334J63H▲	0.33	63/40	4.5 x 8.5	.55	.52	.494	.383
528577CM	168474J63H▲	0.47	63/40	4.5 x 8.5	.51	.482	.458	.324
528585CM	168474K63H▲	0.47	63/40	4.5 x 8.5	.80	.76	.72	.56
528411CM	168102J100A▲	0.001	100/63	2.5 x 6.5	.20	.193	.183	.174
528471CM	168222J100A▲	0.0022	100/63	2.5 x 6.5	*	.175	.166	.157
528500CM	168332J100A	0.0033	100/63	2.5 x 6.5	.24	.224	.213	.201
528542CM	168472J100A	0.0047	100/63	2.5 x 6.5	.24	.224	.213	.201
528420CM	168103J100A▲	0.010	100/63	2.5 x 6.5	*.167	.159	.15	
528489CM	168223J100A▲	0.022	100/63	2.5 x 6.5	*.175	.166	.157	
528518CM	168333J100C▲	0.033	100/63	3.5 x 7.5	.30	.28	.266	.228
528551CM	168473J100C▲	0.047	100/63	3.5 x 7.5	.20	.187	.178	.168

\* ±10% tolerance

## CDE Axial-Lead Metallized Polyester Capacitors

### Type 150 ±5%

- Flame retardant wrap and fill axial capacitors
- Epoxy end fill meets UL94V-0
- Flame retardant outer wrap meets UL510
- General purpose capacitor for use in blocking, bypass, decoupling, smoothing, and timing applications



**NEW**

Part No.	Product No.	Value (μF)	Volts	L x Dia. (mm)	1	10	100	500
527911CM	150104J100AA	0.10	100	11 x 5	\$ .47	\$ .444	\$ .422	\$ .357
527961CM	150224J100CB	0.22	100	16.5 x 6.5	.56	.533	.506	.428
527970CM	150334J100EB▲	0.33	100	16.5 x 8	.55	.52	.494	.451
527945CM	150105J100IC▲	1.0	100	20.5 x 10	.96	.92	.87	.79
527988CM	150473J250AA▲	0.047	250	11 x 5	.40	.384	.365	.333
527929CM	150104J250CB▲	0.1	250	16.5 x 6.5	.49	.467	.444	.404
527996CM	150474J250HC▲	0.47	250	20.5 x 9.5	.70	.66	.63	.58
527953CM	150105J250JE▲	1.0	250	28 x 10.5	.93	.88	.84	.76
527902CM	150103J400AA▲	0.010	400	11 x 5	.39	.367	.349	.318
527890CM	150102J630AA▲	0.001	630	11 x 5	.43	.412	.391	.357
527937CM	150104J630FE▲	0.10	630	28 x 8.5	.90	.85	.81	.74

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## Dipped Tantalum Capacitors (±10%)

### Resin Dipped Solid Tantalum Capacitors

- Operating temp. range: -55°C to +85°C (+125°C with derating)
- Rated voltage DC: ≤ +85°C
- Low leakage current
- Exceptional temperature stability
- Moisture-resistant
- Flame retardant coating
- Designed for entertainment and commercial equipment
- † Cross References:** Panasonic: EF Series; AVX: Tap Series; Sprague: 196D and 199D; Matsuo: 202; Kemet: T350/ T360; Mepco: 49GS; NEC: DN; Nichicon: 599; NIC: NDTM; Hitachi: TSD-3

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
154861CM	TM1/25	.10	25	4.5 x 7 x 2.5	\$.32	\$.29	\$.25	\$.22
33487CM	TM.1	.10	35	4.5 x 7 x 2.5	.27	.25	.19	.15
332110CM	TDR0.1/50	.10	50	4.5 x 7 x 2.5	.40	.348	.28	.22
33508CM	TM.22	.22	35	4.5 x 7 x 2.5	.27	.25	.19	.15
545908CM	TAP334K035SCS	.33	35	4.3 x 7 x 2.5	.26	.224	.202	.194
33524CM	TM.33	.33	35	4.5 x 7 x 2.5	.25	.225	.19	.143
545916CM	TAP334K050SCS	.33	50	4.3 x 7 x 2.5	.29	.25	.227	.219
332128CM	TDR0.33/50	.33	50	4.5 x 7 x 2.5	.39	.351	.227	.18
546038CM	TAP474K035SCS	.47	35	4.3 x 7 x 2.5	.26	.224	.202	.194
33532CM	TM.47	.47	35	4.5 x 7 x 2.5	.22	.20	.15	.14
546046CM	TAP474K050SCS	.47	50	4.3 x 7 x 2.5	.33	.279	.254	.243
332136CM	TDR0.47/50	.47	50	4.5 x 7 x 2.5	.39	.351	.24	.18
546134CM	TAP684K035SCS	.68	35	4.3 x 7 x 2.5	.26	.247	.202	.194
61103CM	TM.68	.68	35	4.5 x 7 x 2.5	.33	.29	.21	.19
546142CM	TAP684K050SCS	.68	50	4.3 x 7 x 2.5	.33	.314	.254	.243
545588CM	TAP105K025SCS	1	25	4.3 x 7 x 2.5	.23	.194	.177	.168
545596CM	TAP105K035SCS	1	35	4.3 x 7 x 2.5	.20	.169	.154	.151
545561CM	TAP104K035SCS	1	35	4 x 6 x 2.5	.26	.194	.161	.153
33663CM	TM1	1	35	4.5 x 7 x 2.5	.32	.29	.25	.22
545609CM	TAP105K050SCS	1	50	4.7 x 7 x 2.5	.30	.254	.23	.219
332141CM	TDR1/50	1	50	8.0 x 5 x 2.5	.34	.30	.216	.21
545705CM	TAP155K025SCS	1.5	25	4.3 x 7 x 2.5	.26	.224	.202	.194
545713CM	TAP155K035SCS	1.5	35	4.3 x 7 x 2.5	.30	.257	.234	.219
94002CM	TM2.2/16	2.2	16	4.5 x 7 x 2.5	.21	.19	.16	.12
33735CM	TM2.2/35	2.2	35	5 x 8 x 2.5	.39	.35	.29	.22
545799CM	TAP225K020SCS	2.2	20	4.3 x 7 x 2.5	.30	.257	.234	.219
545801CM	TAP225K025SCS	2.2	25	4.3 x 7 x 2.5	.24	.203	.184	.175
545810CM	TAP225K035SCS	2.2	35	4.3 x 7 x 2.5	.26	.22	.20	.19
545828CM	TAP225K050SCS	2.2	50	5.4 x 8 x 2.5	.53	.448	.407	.404
332152CM	TDR2.2/50	2.2	50	6.5 x 11 x 2.5	.73	.63	.50	.45
545924CM	TAP335K010SCS	3.3	10	4 x 6 x 2.5	.26	.224	.202	.194
545932CM	TAP335K016SCS	3.3	16	4.3 x 7 x 2.5	.26	.224	.202	.194
545941CM	TAP335K025SCS	3.3	25	4.3 x 7 x 2.5	.33	.279	.254	.243
545959CM	TAP335K035SCS	3.3	35	4.3 x 7 x 2.5	.41	.347	.314	.30
33770CM	TM3.3	3.3	35	5 x 8 x 2.5	.45	.36	.32	.24
545967CM	TAP335K050SCS	3.3	50	5.4 x 8 x 2.5	.65	.64	.63	.62
546054CM	TAP475K010SCS	4.7	10	4.3 x 7 x 2.5	.25	.213	.193	.184
546062CM	TAP475K016SCS	4.7	16	4.3 x 7 x 2.5	.28	.249	.228	.205
94036CM	TM4.7/16	4.7	16	5 x 8 x 2.5	.47	.38	.28	.20
546071CM	TAP475K025SCS	4.7	25	4.3 x 7 x 2.5	.38	.36	.263	.25
94044CM	TM4.7/25	4.7	25	5 x 8 x 2.5	.49	.44	.33	.20
546089CM	TAP475K035SCS	4.7	35	4.7 x 7.5 x 2.5	.33	.314	.258	.245
33807CM	TM4.7	4.7	35	5.5 x 9.5 x 2.5	.45	.42	.37	.27
546097CM	TAP475K050SCS	4.7	50	6 x 9.4 x 2.5	.91	.90	.89	.88
546151CM	TAP685K006SCS	6.8	6.3	4 x 6 x 2.5	.26	.247	.202	.194
546169CM	TAP685K010SCS	6.8	10	4.3 x 7 x 2.5	.37	.352	.284	.267
546177CM	TAP685K016SCS	6.8	16	4.3 x 7 x 2.5	.39	.371	.299	.284
546185CM	TAP685K025SCS	6.8	25	4.7 x 7.5 x 2.5	.51	.439	.348	.331
546193CM	TAP685K035SCS	6.8	35	4.7 x 7.5 x 2.5	.51	.485	.391	.373
33874CM	TM6.8	6.8	35	6.5 x 11 x 2.5	.59	.45	.36	.32

### Other Manufacturers — Great Deals\*

33486CM	TM.1	.10	35	4.5 x 7	\$.23	\$.225	\$.171	\$.135
33507CM	TM.22	.22	35	4.5 x 7	.27	.237	.184	.137
33523CM	TM.33	.33	35	4.5 x 7	.27	.237	.216	.17
33531CM	TM.47	.47	35	4.5 x 7	*	.18	.135	.126
61102CM	TM.68	.68	35	4.5 x 7	.27	.23	.213	.159
154860CM	TM1/25	1	25	4.5 x 7	.29	.261	.225	.198
33662CM	TM1	1	35	4.5 x 7	.29	.261	.225	.198
94001CM	TM2.2/16	2.2	16	4.5 x 7	.29	.24	.20	.15
94019CM	TM2.2/25	2.2	25	4.5 x 7	.35	.29	.23	.18
33734CM	TM2.2	2.2	35	5 x 8	.35	.315	.261	.198
33769CM	TM3.3	3.3	35	5 x 8	.50	.324	.297	.279
94035CM	TM4.7/16	4.7	16	5 x 8	.34	.31	.27	.20
94043CM	TM4.7/25	4.7	25	5 x 8	.44	.396	.297	.18

Part No.	Cross Ref. No. †	Value (µF)	Volt. (V)	Size (mm) D x H x L.S.	Pricing			
					1	10	100	500
545617CM	TAP106K006SCS	10	6.3	4.3 x 7 x 2.5	\$.33	\$.279	\$.254	\$.243
545625CM	TAP106K010SCS	10	10	4.7 x 7.5 x 2.5	.42	.253	.224	.213
94061CM	TM10/16	10	16	5 x 8 x 2.5	.45	.39	.29	.25
545633CM	TAP106K020SCS	10	20	5.4 x 8 x 2.5	.50	.423	.384	.365
545641CM	TAP106K025SCS	10	25	5.4 x 8 x 2.5	.58	.498	.395	.389
94079CM	TM10/25	10	25	5.5 x 9.5 x 2.5	.59	.50	.40	.36
545570CM	TAP106K050SCS	10	50	4 x 6 x 2.5	.31	.269	.227	.219
545650CM	TAP106K035SCS	10	35	5.4 x 8 x 2.5	.81	.77	.68	.62
33690CM	TM10	10	35	5.5 x 11 x 2.5	.89	.79	.69	.59
332161CM	TDR10/50	10	50	8.5 x 13 x 2.5	3.15	2.78	2.27	2.09
545721CM	TAP156K010SCS	15	10	4.7 x 7.5 x 2.5	.44	.372	.338	.324
545730CM	TAP156K016SCS	15	16	5.4 x 8 x 2.5	.53	.448	.407	.389
545748CM	TAP156K020SCS	15	20	5.4 x 8 x 2.5	.54	.457	.414	.397
33719CM	TM15	15	25	6.5 x 11 x 2.5	.89	.80	.72	.61
597468CM	TAP156K035SCS	15	35	6 x 9.4 x 2.5	1.79	1.52	1.38	1.30
545692CM	TAP154K035SCS	15	35	4 x 6 x 2.5	.26	.224	.202	.194
545836CM	TAP226K006SCS	22	6.3	4.7 x 7.5 x 2.5	.44	.372	.338	.324
33752CM	TM22	22	6.3	5.5 x 9.5 x 2.5	.45	.37	.26	.22
545844CM	TAP226K010SCS	22	10	5.4 x 8 x 2.5	.50	.423	.384	.365
545852CM	TAP226K016SCS	22	16	5.4 x 8 x 2.5	.40	.338	.307	.305
94095CM	TM22/16	22	16	5.5 x 9.5 x 2.5	.69	.59	.49	.45
545861CM	TAP226K020SCS	22	20	6 x 9.4 x 2.5	1.01	.86	.77	.73
545879CM	TAP226K025SCS	22	25	6 x 9.4 x 2.5	1.75	1.27	1.15	1.08
545887CM	TAP226K035SCS	22	35	7 x 11 x 2.5	1.39	1.18	1.07	1.05
332101CM	TDR22/35	22	35	8.5 x 13 x 2.5	2.15	1.85	1.25	1.15
545975CM	TAP336K006SCS	33	6.3	5.4 x 8 x 2.5	.47	.397	.361	.34
545983CM	TAP336K010SCS	33	10	5.4 x 8 x 2.5	.58	.491	.446	.421
545991CM	TAP336K016SCS	33	16	6 x 9.4 x 2.5	1.03	.87	.78	.75
546003CM	TAP336K020SCS	33	20	6 x 9.4 x 2.5	1.45	1.23	1.12	1.05
546011CM	TAP336K025SCS	33	25	6 x 9.4 x 2.5	1.89	1.60	1.45	1.38
33786CM	TM33	33	25	8.5 x 13 x 2.5	2.35	2.09	1.62	1.05
546020CM	TAP336K035SCS	33	35	8.2 x 12.5 x 2.5	3.15	2.67	2.43	2.28
546100CM	TAP476K010SCS	47	10	6 x 9.4 x 2.5	1.03	.98	.79	.75
546118CM	TAP476K016SCS	47	16	6 x 9.4 x 2.5	1.59	1.52	1.22	1.14
94124CM	TM47/16	47	16	6.5 x 11 x 2.5	1.69	1.55	1.35	.95
33823CM	TM47	47	25	9.5 x 16.5 x 2.5	3.39	3.05	2.35	1.85
546126CM	TAP476K035SCS	47	35	8.2 x 12.5 x 5	5.55	5.28	3.76	3.58
546206CM	TAP686K006SCS	68	6.3	6 x 9.4 x 2.5	.62	.59	.476	.454
546214CM	TAP686K010SCS	68	10	6 x 9.4 x 2.5	1.49	1.42	1.15	1.08
546222CM	TAP686K016SCS	68	16	7 x 11 x 2.5	1.95	1.85	1.48	1.39
546231CM	TAP686K020SCS	68	20	8.2 x 12.5 x 5	4.09	3.89	3.14	2.95
332099CM	TDR68/25	68	25	9.5 x 16.5 x 2.5	6.49	5.64	4.42	3.98
545668CM	TAP107K006SCS	100	6.3	6.0 x 9.4 x 2.5	1.31	1.12	1.01	.96
33701CM	TM100	100	6.3	8.5 x 13 x 2.5	1.19	1.09	.95	.85
597450CM	TAP107K016SCS	100	16	7 x 11 x 2.5	4.09	3.46	3.14	2.95
545684CM	TAP107K020SCS	100	20	8.2 x 12.5 x 2.5	4.69	3.97	3.61	3.43
545764CM	TAP157K006SCS	150	6.3	7 x 11 x 2.5	1.95	1.63	1.48	1.39
545772CM	TAP157K010SCS	150	10	7 x 11 x 2.5	3.79	3.22	2.92	2.74
545895CM	TAP227K010SCS	220	10	8.2 x 12.5 x 2.5	4.69	3.97	3.61	3.43

\* Capacitor dimensions and styles may vary

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)



- Designed as an input filter for switched mode power supply; standard 10mm (0.40") snap-in spacing
- Operating temperature range: (SNA) -40°C to +85°C; (SNB) -40°C to +105°C • Can-Top safety vent

† CROSS REFERENCES: Aero M: LP/LPR; Elna: LP3/LP4; Illinois Capacitor: LBA/LPR; Mallory: LPX; Marcon: CEAWF; Nichicon: LLK/LLQ; Panasonic: TS-UP/TS-U; Phillips (MEPCO): 3487/3489; Rubycon: RSP; Sprague: 80D/82D; United Chemicon: SMG(VN)/SMH(VN)

115422CM

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
331838CM	SNA68/450	68	450V	22 x 30	\$2.55	\$2.19	\$1.26
331926CM	SNB100/200	100	200V	30 x 40	1.95	1.50	.81
331846CM	SNA120/450	120	450V	22 x 40	3.09	2.33	1.45
331766CM	SNA220/200	220	200V	22 x 27	1.89	1.42	.89
331934CM	SNB220/200	220	200V	22 x 27	2.19	1.81	1.25
331791CM	SNA220/250	220	250V	22 x 36	2.19	1.65	1.02
332013CM	SNB220/250	220	250V	22 x 36	1.99	1.89	1.25
203238CM	SN270/350	270	350V	25 x 40	2.95	2.51	1.88
331774CM	SNA330/200	330	200V	25 x 35	2.55	1.49	1.29
331942CM	SNB330/200	330	200V	25 x 30	1.75	1.66	1.39
331803CM	SNA330/250	330	250V	22 x 36	1.95	1.74	1.41
332021CM	SNB330/250	330	250V	22 x 36	2.19	2.10	1.35
203246CM	SN330/400	330	400V	30 x 46	4.25	3.82	2.98
331862CM	SNA330/450	330	450V	35 x 48	5.99	4.52	2.80
331951CM	SNB470/200	470	200V	22 x 41	2.39	2.19	1.26
331811CM	SNA470/250	470	250V	25 x 40	3.05	2.30	1.43
332030CM	SNB470/250	470	250V	25 x 40	2.35	2.15	1.61
203263CM	SN470/400/5	470	450V	35 x 51	8.25	7.60	5.69
155890CM	SN560/200	560	200V	23 x 41	2.89	2.60	1.95
331782CM	SNA560/200	560	200V	25 x 36	2.99	2.12	1.22
331969CM	SNB560/200	560	200V	25 x 36	3.35	2.39	1.36
332048CM	SNA560/250	560	250V	30 x 40	2.95	2.80	1.81

Part No.	Cross Ref. No.†	Value (µF)	Voltage	Size (mm) D x H	Pricing		
					1	10	100
203271CM	SN680/200/2	680	200V	35 x 25	\$1.29	\$1.10	\$0.82
331971CM	SNB680/200	680	200V	25 x 40	3.05	2.69	2.42
331820CM	SNA680/250	680	250V	25 x 48	3.79	2.86	1.77
332056CM	SNB680/250	680	250V	25 x 48	3.89	3.53	2.28
331985CM	SNB820/200	820	200V	25 x 48	3.15	2.78	1.73
332064CM	SNB820/250	820	250V	30 x 48	4.35	4.03	2.50
331993CM	SNB1000/200	1,000	200V	30 x 40	4.29	3.23	2.00
332072CM	SNB1000/250	1,000	250V	35 x 50	4.75	4.37	3.19
332005CM	SNB1500/200	1,500	200V	35 x 48	5.45	4.24	2.76
331871CM	SNB2200/50	2,200	50V	22 x 26	3.19	2.26	1.30
331889CM	SNB3300/50	3,300	50V	25 x 23	2.45	2.01	1.17
331740CM	SNA3300/80	3,300	80V	22 x 48	2.35	2.23	1.75
331897CM	SNB4700/50	4,700	50V	25 x 30	2.19	1.99	1.79
115422CM	SN4700/50	4,700	50V	30 x 41	2.19	1.99	1.49
331723CM	SNA4700/63	4,700	63V	25 x 40	3.75	3.06	2.54
331900CM	SNB6800/50	6,800	50V	25 x 40	2.69	2.40	1.82
115432CM	SN6800/50	6,800	50V	30 x 51	1.95	1.72	1.55
331758CM	SNA8200/80	8,200	80V	35 x 53	6.89	5.15	4.00
331707CM	SNA10000/16	10,000	16V	22 x 30	3.29	1.90	1.34
331919CM	SNB10000/50	10,000	50V	25 x 41	4.65	3.51	2.18
157737CM	SN10000/50	10,000	50V	35 x 40	4.95	4.10	3.99
331732CM	SNA10000/63	10,000	63V	35 x 40	5.49	4.45	3.94
331715CM	SNA15000/25	15,000	25V	25 x 40	2.65	2.35	1.78

### Other Manufacturers — Great Deals\*

203211CM	SN220/400/2	220	400V	22 x 51	\$3.85	\$3.25	\$2.35
115377CM	SN470/200	470	200V	30 x 41	2.49	2.12	1.59
203254CM	SN470/400/4	470	400V	35 x 41	6.35	5.40	4.05

\*Capacitor dimensions may vary

155889CM	SN560/200	560	200V	23 x 41	\$2.49	\$2.12	\$1.59
115431CM	SN6800/50	6,800	50V	30 x 51	2.85	2.41	1.81

## Mylar Capacitors (±10%)

### Metallized Polyester Film Capacitors

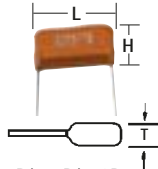
- High performance at low cost • Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: ≤0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec

† Cross References: Panasonic: ECO-E Series; Sprague: DF/450P/451P/453P; Westlake: 160/168/ 185/167/184/186; Rubycon: MC/MN; Mepco: 713A1/719A1/ C280; TRW: X601PE/ X601CPE; Packtron: MF/RB; Secor: MKMS/MNKR/MMDR; RIFA: PHE353/ PHE354; Roederstein: MKT 1818/MKT 1822; WIMA: MKS; CSF Thompson: MD/ MC; Siemens: B325X-XX; NIC: NEM/NRM; Nichicon: DDXM; Phillips: 712 A1 series

\*Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.†	Value (µF)	Volt. (V)	Size (mm) L x T x H	Pricing		
					1	10	100
26833CM	MY.001	.001	100	7.0 x 3.0 x 7.0	*.092	\$.062	\$.048
26868CM	MY.0022	.0022	100	6.0 x 3.0 x 10.0	*.09	\$.056	\$.043
26876CM	MY.0047	.0047	100	6.0 x 3.0 x 9.0	*.14	\$.13	\$.11
207829CM	MY.0068/220	.0068	220	18.0 x 5.5 x 10.0	*.066	\$.059	\$.053
26884CM	MY.01	.01	100	6.0 x 3.0 x 7.0	*.13	\$.096	\$.091
207837CM	MY.018/50	.018	50	6.1 x 2.6 x 11.3	*.04	\$.036	\$.032
26905CM	MY.022	.022	100	6.0 x 3.0 x 10.0	*.13	\$.095	\$.09
26921CM	MY.033	.033	100	8.0 x 4.0 x 11.0	*.11	\$.088	\$.084
207861CM	MY.033/400	.033	400	11.0 x 4.0 x 8.0	.36	\$.245	\$.144
26930CM	MY.047	.047	100	8.0 x 4.0 x 12.0	*.12	\$.104	\$.099
135562CM	MY.1/50	.1	50	14.0 x 6.0 x 12.0	*.14	\$.12	\$.094
26956CM	MY.1	.1	100	12.5 x 5.0 x 9.5	.27	\$.233	\$.185
93921CM	MY.1/250	.1	250	12.5 x 5.5 x 10	*.17	\$.14	\$.122
26972CM	MY.22	.22	100	12.5 x 5.5 x 10	*.19	\$.12	\$.085
93964CM	MY.33/250	.33	250	18.0 x 7.0 x 12.5	.27	\$.24	\$.22
26999CM	MY.47	.47	100	18.0 x 6.0 x 11.5	.30	\$.263	\$.238
27001CM	MY1	1.0	100	18.0 x 7.5 x 14.0	.56	\$.447	\$.333
93981CM	MY1/250	1.0	250	26.0 x 9.0 x 16.0	.62	\$.45	\$.38
93999CM	MY2.2/250	2.2	250	26.0 x 9.0 x 16.0	.92	\$.75	\$.62

†† ±20% tolerance \*Capacitor dimensions and styles may vary



## Memory Back-Up Capacitors

Applications: • Memory back-up of remote controllers

- Back-up on CMOS microcomputers, static RAM, DTSS (digital tuning systems)

Features:

- Small size vs. capacitance • Voltage: 5.5VDC
- Excellent voltage holding characteristics for low back-up currents



Part No.	Cross Ref. No.	Value (Farad)	Size (mm) L x T x Dia.	1	10	100
142922CM	MBC.047/5.5	.047	10.6 x 6.6 x 12.0	\$1.48	\$1.26	\$0.99
142949CM	MBC.22/5.5	.22	11.8 x 6.4 x 12.8	2.09	1.79	1.41
143010CM	MBC.47/5.5	.47	13.3 x 9.2 x 21.1	3.49	3.15	2.59

### Other Manufacturers — Great Deals\*

142957CM	MBC1.0/5.5	1.0	—	\$4.29	\$3.85	\$3.49
227811CM	SSR5V105	1.0	24.2 x 4.3 x 18.0	4.49	3.82	2.86

\*Capacitor dimensions and styles may vary

## Compare Our Awesome Prices in Capacitors!

Jameco Part No.	Product No.	Jameco Price	Digi-Key Price	Mouser Price	Newark Price	Minimum Savings	Discount
203271CM	Snap Electro, 6800uf, 200V	\$1.29	\$4.13	\$4.52	\$3.59	\$2.30	64.1%
115431CM	Snap Electro, 6800uf, 50V	\$2.85	\$4.70	\$4.78	\$3.70	\$0.85	23.0%
143010CM	Memory Backup, 0.47F, 5.5V	\$3.49	\$5.41	\$4.07	N/A	\$0.58	14.3%
545166CM	Tant, SMT 3828, 22uf, 16V	\$0.21	\$0.55	\$0.52	\$0.427	\$0.217	50.8%
544964CM	Tant, SMT 3216, 0.1uf, 35V	\$0.33	\$1.00	\$0.80	\$0.656	\$0.326	49.7%
546089CM	Tant, Radial, 4.7uf, 35V	\$0.33	\$0.77	\$0.66	\$0.638	\$0.308	48.3%
93964CM	Mylar, 0.33uf, 250V	\$0.27	\$0.60	\$0.59	\$0.624	\$0.32	54.2%
93999CM	Mylar, 2.2uf, 250V	\$0.92	\$1.67	\$1.65	\$1.74	\$0.73	44.2%

These are single unit prices taken from each party's website on June 7, 2006, and do not include shipping & handling charges, volume discounts or any other discounts. Pricing does fluctuate, so please be sure to check when making purchases.

# Radial Snap-In & Mica Capacitors



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave



## Radial Snap-In Capacitors

Type LP  $\pm 20\%$

- High reliability
- Stable ESR
- Small size, rated for low-voltage applications
- Polarized
- PVC sleeve insulation
- Ideal for use in switch-mode power supplies

NEW



Part No.	Product No.	Value ( $\mu$ F)	Volts	Dia. x L (mm)	1	10	100	500
535777CM	LP101M250A1P3	100	200	22 x 25	\$4.99	\$4.72	\$4.21	\$3.37
535822CM	LP151M200C1P3	150	200	25 x 25	1.08	1.02	.97	.73
535785CM	LP102M200H9P3	1,000	200	35 x 50	7.15	6.23	4.85	4.61
535814CM	LP122M050A1P3	1,200	50	22 x 25	.90	.79	.76	.72
535857CM	LP222M050E1P3	2,200	50	30 x 25	4.75	3.99	3.24	2.73
535865CM	LP222M063E3P3	2,200	63	30 x 30	1.99	1.88	1.38	1.10
535881CM	LP272M035C1P3	2,700	35	25 x 25	2.35	2.24	1.65	1.31
535890CM	LP332M050E3P3	3,300	50	30 x 30	5.79	5.48	4.89	3.91
535911CM	LP472M016A1P3	4,700	16	22 x 25	2.89	2.76	1.51	1.07
535929CM	LP472M050H3P3	4,700	50	35 x 30	2.49	2.32	1.70	1.35
535937CM	LP472M063E9P3	4,700	63	30 x 50	5.95	5.07	4.53	4.04
535945CM	LP682M050E9P3	6,800	50	30 x 50	4.95	4.31	4.09	3.89
535953CM	LP682M063H9P3	6,800	63	35 x 50	6.29	5.99	5.19	4.94
535961CM	LP822M035H3P3	8,200	35	35 x 30	2.85	2.47	2.34	2.22
535793CM	LP103M025H3P3	10,000	25	35 x 30	2.49	2.32	1.71	1.36
535806CM	LP103M035E7P3	10,000	35	30 x 40	3.99	3.79	3.27	3.11
535831CM	LP153M016H3P3	15,000	16	35 x 30	8.35	7.15	6.39	5.70
535849CM	LP153M035H9P3	15,000	35	35 x 50	6.49	5.54	4.95	4.42
535873CM	LP222M025H9P3	22,000	25	35 x 50	5.85	5.09	4.83	4.59
535902CM	LP333M016H9P3	33,000	16	35 x 50	12.15	10.38	9.27	8.28

Type LPX  $\pm 20\%$

- Compact design for high density packaging
- Low voltage
- Ideal for high voltage switch-mode power supply input filtering applications
- Polarized
- High capacitance
- PVC insulating sleeve

NEW

Part No.	Product No.	Value ( $\mu$ F)	Volts	Dia. x L (mm)	1	10	100	500
535970CM	LPX101M400A3P3	100	400	22 x 30	\$1.89	\$1.78	\$1.31	\$1.20
535988CM	LPX101M450C3P3	100	450	25 x 30	2.29	2.18	2.07	1.81
536016CM	LPX221M400C7P3	220	400	25 x 40	3.65	3.45	2.53	2.00
536032CM	LPX271M450E4P3	270	450	30 x 45	6.45	6.12	5.81	5.06
536041CM	LPX331M250C3P3	330	250	25 x 30	3.49	3.09	2.99	2.84
536059CM	LPX331M400E7P3	330	400	30 x 40	5.79	5.13	4.96	4.71
536067CM	LPX331M450H7P3	330	450	35 x 40	7.29	6.93	5.08	4.03
536075CM	LPX471M200C3P3	470	200	25 x 30	2.39	2.25	1.65	1.31
536083CM	LPX471M450H9P3	480	450	35 x 50	10.39	9.88	7.24	5.74
536091CM	LPX681M200C7P3	680	200	25 x 40	2.49	2.29	2.18	1.90
536104CM	LPX681M400H9P3	680	400	35 x 50	11.49	10.18	9.83	9.34
535996CM	LPX152M200H7P3	1,500	200	35 x 40	6.19	5.87	5.58	4.86
536008CM	LPX152M250H9P3	1,500	250	35 x 50	9.55	8.43	8.15	7.74
536024CM	LPX222M200H9P3	2,200	200	35 x 50	11.89	10.51	10.16	9.65

## Dipped Silver Mica Capacitors ( $\pm 5\%$ )

Metallized Polyester Film Capacitors

- Case type: DM15
- Lead Space: 0.23"
- Tolerance:  $\pm 5\%$
- Operating temp. range: -55° to +125°C



Part No.	Cross Ref. No.	Value	Volts (V)	Size (mm) L x T x H*	1	10	100	1000
15991CM	DM100	10pF	500	11 x 4 x 9	\$ .49	\$ .44	\$ .333	\$ .249
16037CM	DM220	22pF	500	11 x 4 x 9	.49	.39	.29	.23
16070CM	DM330	33pF	500	11 x 4 x 9	.49	.38	.31	.29
16096CM	DM470	47pF	500	11 x 4 x 9	.49	.39	.29	.25
16002CM	DM101	100pF	500	11 x 4 x 9	.49	.44	.35	.26
16088CM	DM331	330pF	500	11 x 4 x 9	.89	.73	.55	.45
16109CM	DM471	470pF	500	11 x 4 x 9	1.05	.95	.79	.65
16011CM	DM102	1000pF	100	11 x 4 x 9	1.19	1.07	.86	.64

\*Capacitor dimensions and styles may vary

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product



This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## Standard Dipped Mica Capacitors

Type CD10/D10/CD15/CD19/CD30/CD42/CDV19/CDV30

- High temperature up to 150°C
- Dimensions meet EIA RS153B specifications
- 100,000V/ $\mu$ s dV/dt pulse capability minimum
- Dielectric strength: 200% of rated voltage
- Tolerance:  $\pm 1/2$ pF (D);  $\pm$ pF (C);  $\pm 1.2\%$  (E);  $\pm 1\%$  (F);  $\pm 2\%$  (G);  $\pm 5\%$  (J)

NEW



\* Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Value ( $\mu$ F)	VDC	Size (mm) LxHxTh	Spacing (mm)	Price			
						1	10	100	1000
530108CM	CD10CD050D03	5	500	9.1x8.4x4.8	3.6	\$1.06	\$1.00	\$.95	\$.72
530141CM	CD10CD150J03	15	500	9.1x8.4x4.8	3.6	1.06	1.00	.95	.72
530167CM	CD10ED200J03	20	500	9.1x8.4x4.8	3.6	.81	.77	.73	.539
530191CM	CD10ED270J03	27	500	9.4x8.4x4.8	3.6	.81	.77	.73	.539
530204CM	CD10ED300J03	30	500	9.4x8.6x4.8	3.6	.81	.77	.73	.539
530212CM	CD10ED330J03	33	500	9.4x8.6x4.8	3.6	.81	.77	.73	.539
530221CM	CD10ED390J03	39	500	9.4x8.6x4.8	3.6	.91	.86	.82	.62
530280CM	CD10FA331J03	330	500	16.3x12.7x4.8	8.7	1.55	1.42	1.35	1.01
530319CM	CD10FD101J03	100	500	9.4x8.9x5.1	3.6	.98	.93	.88	.67
530335CM	CD10FD151J03	150	500	9.7x9.1x5.3	3.6	1.01	.96	.91	.69
530343CM	CD10FD181J03	180	500	9.9x9.4x5.3	3.6	1.65	1.54	1.46	.90
530360CM	CD10FD221J03	220	500	9.9x9.7x5.6	3.6	1.37	1.31	1.24	.93
530394CM	CD15CD030D03	3	500	11.4x9.1x4.3	5.9	.76	.73	.69	.467
530466CM	CD15ED200D03	20	500	11.4x9.1x4.3	5.9	.88	.84	.67	.485
530482CM	CD15ED220D03	22	500	11.4x9.1x4.3	5.9	.89	.68	.63	.46
530511CM	CD15ED270J03	27	500	11.4x9.1x4.3	5.9	.54	.51	.484	.354
530520CM	CD15ED300J03	30	500	11.4x9.1x4.3	5.9	.54	.51	.484	.354
530538CM	CD15ED330G03	33	500	11.4x9.1x4.3	5.9	.99	.94	.89	.60
530562CM	CD15ED390G03	39	500	11.4x9.1x4.3	5.9	.99	.94	.89	.60
530589CM	CD15ED470G03	47	500	11.4x9.1x4.3	5.9	.93	.88	.63	.46
530600CM	CD15ED500J03	50	500	11.4x9.1x4.3	5.9	.53	.497	.472	.348
530642CM	CD15ED680J03	68	500	11.4x9.1x4.6	5.9	.56	.52	.494	.365
530491CM	CD15ED220J03	22	500	11.4x9.1 x4.6	5.9	*	.50	.49	.48
530669CM	CD15ED820J03	82	500	11.4x9.1x4.6	5.9	.55	.52	.494	.365
530677CM	CD15FA102F03	1000	500	11.4x9.1x4.6	5.9	4.29	4.07	3.87	2.79
530722CM	CD15FC681J03	680	300	11.9x9.9x5.3	5.9	1.69	1.57	1.49	1.10
530731CM	CD15FC751J03	750	300	11.9x9.9x5.3	5.9	1.79	1.67	1.59	1.18
530749CM	CD15FC821J03	820	300	11.9x9.9x5.3	5.9	1.95	1.81	1.72	1.27
530757CM	CD15FD101F03	100	500	11.7x9.4x4.6	5.9	1.19	1.13	1.12	.69
530781CM	CD15FD121J03	120	500	11.7x9.4x4.6	5.9	.61	.57	.539	.395
530802CM	CD15FD151J03	150	500	11.7x9.4x4.8	5.9	.64	.60	.57	.416
530829CM	CD15FD181J03	180	500	11.7x9.4x4.8	5.9	.73	.70	.66	.479
530853CM	CD15FD221J03	220	500	11.7x9.7x5.1	5.9	.76	.72	.68	.497
530888CM	CD15FD271J03	270	500	11.9x9.9x5.3	5.9	.88	.83	.79	.58
530909CM	CD15FD331G03	330	500	11.9x9.9x5.3	5.9	1.79	1.70	1.20	.88
530941CM	CD15FD391J03	390	500	11.9x9.9x5.3	5.9	1.12	1.05	1.00	.74
530984CM	CD15FD471J03	470	500	11.9x10.2x5.6	5.9	1.30	1.22	1.16	.85
531039CM	CD19FD102J03	1000	500	16.5x13.2x5.6	8.7	1.59	1.51	1.13	.94
531055CM	CD19FD122J03	1200	500	16.8x13.2x5.6	8.7	1.59	1.49	1.13	.94
531101CM	CD19FD202J03	2000	500	17x13.5x6.1	8.7	2.35	2.20	1.66	1.37
531135CM	CD19FD271J03	270	500	16.3x12.7x4.8	8.7	1.06	.99	.75	.62
531160CM	CD19FD331J03	330	500	16.3x12.7x4.8	8.7	1.10	1.02	.77	.64
531194CM	CD19FD392J03	3900	500	17.5x14.2x7.9	8.7	3.89	3.68	2.77	2.30
531215CM	CD19FD472J03	4700	500	17.8x14.7x8.9	8.7	4.15	3.67	2.77	2.29
531258CM	CD19FD561J03	560	500	16.5x13x5.1	8.7	1.15	1.08	.81	.67
531266CM	CD19FD681J03	680	500	16.5x13x5.3	8.7	1.33	1.26	.95	.79
531303CM	CD30FD103J03	10,000	500	20.3x22.6x8.6	11.1	9.09	8.15	6.15	5.04
531776CM	CDV19FF391J03	390	1000	16.5x13x5.1	8.7	1.79	1.70	1.06	.79

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## Suppressor Capacitors

### 158 Series Type X2 ±20%

- UL1414 and CSA approved
- Flame retardant case meets UL94V-0
- Polyurethane end file meets UL94V-0
- Used in applications where damage to the capacitor will not lead to the danger of electrical shock
- Lead material: tinned copper clad steel
- Operating temperature range: -40°C to 100°C
- Voltage range: 275/250 VAC, 60Hz
- Insulation resistance @ 500VDC:  $\leq 0.33\mu F = 15k M\Omega$ ,  $\geq 0.47\mu F = 5k M\Omega \times \mu F$

**NEW**



Part No.	Product No.	Value (μF)	L x Th. x H (mm)	Spacing (mm)	1	10	100	500
528008CM	158X103	0.010	17 x 5 x 12	15	\$ .50	\$ .479	\$ .455	\$ .334
528059CM	158X333	0.033	17 x 5 x 12	15	.73	.69	.62	.434
528067CM	158X473	0.047	17 x 5.5 x 12.5	15	.52	.492	.467	.341
528016CM	158X104	0.10	17 x 8 x 15	15	.53	.499	.474	.347
528032CM	158X244	0.22	25 x 8 x 17.5	22.5	.88	.83	.79	.58
528075CM	158X474	0.47	30 x 11 x 22	27.5	1.65	1.55	1.10	.85
528083CM	158X684	0.68	30 x 13.5 x 24.5	27.5	2.75	2.47	2.20	1.76
528024CM	158X105	1.0	30.5 x 15 x 24.5	27.5	2.99	2.82	2.00	1.59
528041CM	158X225	2.2	41 x 17.5 x 32.5	37.5	5.95	5.65	4.00	3.18



## Radial Metallized Polyester RC Network for Transient Suppression Capacitors

### Type Q/QRL (Quencharc®) Arc Suppressor/ Snubber Network

- Noise and arc suppression
- Relay contact protection
- Noise reduction on controllers and drives
- Type QRL – UL/CSA version
- Capacitance tolerance: ±20%
- Operating temperature range: -55°C to 85°C
- Metallized polyester in series with a carbon composition resistor
- Dielectric withstanding voltage: 1.6 x DC rated voltage
- RC snubber network
- EMI/RFI reduction
- Lead spacing: 20.8mm
- Resistor tolerance: ±10%



**NEW**

527873CM: UL/CSA recognized across-the-line application, type QRL, complies with UL1414 CSA-22.2 No.1

200VDC/125VAC • Size: 27.4L x 9.4Th. x 16.3H mm

Part No.	Product No.	Value (μF)	Resistor Value	1	10	100	500
527881CM	105M02QB47	1.0	1/2W; 100Ω	\$5.19	\$4.91	\$3.61	\$3.04

600VDC/250VAC • Size: 27.4L x 9.4Th. x 16.8H mm

Part No.	Product No.	Value (μF)	Resistor Value	1	10	100	500
527857CM	104M06QC22	0.10	1/2W; 22Ω	\$3.99	\$3.78	\$2.78	\$2.34
527865CM	104M06QC47	0.10	1/2W; 47Ω	5.19	4.14	3.80	3.61
527831CM	104M06QC100	0.10	1/2W; 100Ω	3.89	3.79	2.78	2.35
527849CM	104M06QC150	0.10	1.2W; 150Ω	5.59	4.47	4.12	3.91

Type QRL 125VAC • Size: 27.4L x 9.4Th. x 16.8H mm

Part No.	Product No.	Value (μF)	Resistor Value	1	10	100	500
527873CM	104MACQRL150	0.10	1/2W; 150Ω	\$4.55	\$4.29	\$3.16	\$2.66



## Miscellaneous Capacitors

### Type PSU AC Motor Start

- Dual quick connect terminals
- Voltage range: 110-330VAC
- Operating temp: -40°C to 65°C

### Type SCRNM Film-Paper/Extended Foil Commutating Capacitor

- Voltage range: 200-2000 Vpk
- Tolerance: ±10%

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## Ceramic Capacitors

### P10 – P40 Series Multi-Layer

- Axial leaded conformally coated
- Encapsulation consists of a moisture and shock resistant coating that meets UL04V-0
- Applications: filtering, bypass, coupling

**NEW**

50VDC, X7R, ±10%

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Capacitance	Dimensions	10	100	500	1000
536526CM	P10R103K5	.01μF	0.10" Dia. x 0.17"L	\$ .118	\$ .112	\$ .108	\$ .105
536542CM	P20R104K5	0.1μF	0.12" Dia. x 0.17"L	.17	.158	.15	.141

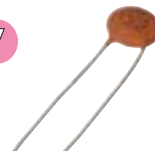
50VDC, Z5U, ±20%

Part No.	Product No.	Capacitance	Dimensions	10	100	500	1000
536534CM	P10U104M5	0.1μF	0.10" Dia. x 0.17"L	\$ .10	\$ .096	\$ .091	\$ .086
536551CM	P40U105M5	1μF	0.15" Dia. x 0.40"L	.58	.549	.528	.514

### General Purpose Disc

- Ideal for use in non-critical coupling, bypass and filter applications
- Conformally coated
- Temperature range: -30°C to +85°C
- Lead length: 1" minimum
- Lead dia.: 0.025" (except P/N 535638: 0.016")
- Insulation resistance: 10,000MΩ min.
- Breakdown voltage: 2.5 x rated (5 seconds max.)
- Radial leads
- Power factor @ 1kHz: 2.5% max.

**NEW**



Y5U, 20%

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535646CM	GM103M	10,000	500	0.49" x 0.16"	0.252"	\$ .35	\$ .335	\$ .203	\$ .193
535689CM	GP247	4700	1000	0.43" x 0.18"	0.252"	.337	.32	.181	.11
535654CM	GP110	10,000	1000	0.59" x 0.18"	0.374"	.35	.335	.203	.193

Y5P, 10%

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535638CM	GE101K	100pF	50	0.16" x 0.12"	0.098"	\$ .142	\$ .135	\$ .097	\$ .048
535697CM	GP310	100pF	1000	0.24" x 0.18"	0.252"	.172	.163	.154	.057
535700CM	GP347	470pF	1000	0.24" x 0.18"	0.252"	.108	.103	.095	.086
535662CM	GP210	1000pF	1000	0.29" x 0.18"	0.252"	.213	.202	.191	.07
535671CM	GP222	2200pF	1000	0.37" x 0.18"	0.252"	.354	.336	.19	.152

### EIA Class 2 Temperature/Frequency Stable Disc

- Highly efficient for bypass & coupling applications
- Radial leads
- Temperature range: -30°C to +85°C
- Insulation resistance: 10,000MΩ min.
- Power factor @ 1000Hz: 2.5% max.
- Breakdown voltage: 2.5 x rated (5 seconds max.)
- Lead length: 1" minimum
- Lead diameter: 0.032"

**NEW**



Y5U, 20%

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535718CM	HT102M	1000pF	3000	0.39" x 0.24"	0.374"	\$ .237	\$ .225	\$ .214	\$ .181
535726CM	HT222M	2200pF	3000	0.59" x 0.24"	0.374"	.272	.258	.245	.214
535742CM	HT472M	4700pF	3000	0.79" x 0.24"	0.374"	1.03	.98	.64	.61

Y5P, 10%

Part No.	Product No.	Value (pF)	Voltage	Dia. x Thick	Spacing	10	100	1000	5000
535734CM	HT471K	470pF	3000	0.39" x 0.24"	0.374"	\$ .344	\$ .327	\$ .203	\$ .17



## SMT Aluminum Capacitors

### Type AVS SMT 85°C

- Operating temp.: -40° to 85°C
- Tolerance: ±20% @ 120Hz & 20°C
- Leakage current: 0.01CV or 3μA @ 20°C whichever is greater

### SPA ESRD/ESRE Solid Polymer

- Low impedance
- Voltage range: 2-16VDC
- Ultra low ESR: 10mΩ @ 100kHz
- Type SGV
- Voltage range: 4-50VDC

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## Ceramic Disc Capacitors (±20%)

25, 50 and 1000 Volt, 25U Temperature Coefficient

Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.



\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332179CM	CD1/50	1pF	50	5 x 2.5	* .014	\$.009	\$.008	\$.007	
135142CM	DC2.2	2.2pF	50	5 x 2.5	* .05	.035	.019	.014	
332291CM	CD3.3/1000	3.3pF	1000	5 x 2.5	* .176	.103	.098	.097	
332187CM	CD5/50	5pF	50	5 x 2.5	* .056	.028	.027	.026	
332304CM	CD5/1000	5pF	1000	5 x 2.5	* .143	.108	.097	.092	
15334CM	DC10	10pF	50	5 x 2.5	* .07	.05	.02	.015	
332312CM	CD10/1000	10pF	1000	6 x 2.5	.44	.35	.20	.18	.17
332195CM	CD12/50	12pF	50	5 x 2.5	* .014	.009	.008	.007	
332208CM	CD15/50	15pF	50	5 x 2.5	* .03	.018	.016	.015	
332321CM	CD20/1000	20pF	1000	5 x 2.5	.44	.35	.20	.18	.17
15406CM	DC22	22pF	50	6 x 2.5	* .078	.055	.028	.022	
332339CM	CD22/1000	22pF	1000	5 x 2.5	* .093	.052	.048	.044	
332216CM	CD33/50	33pF	50	5 x 2.5	* .056	.027	.025	.02	
15511CM	DC47	47pF	50	5 x 2.5	* .055	.039	.022	.017	
332347CM	CD47/1000	47pF	1000	5 x 2.5	.42	.234	.167	.092	.08
332224CM	CD68/50	68pF	50	5 x 2.5	* .065	.033	.029	.025	
332355CM	CD68/1000	68pF	1000	5 x 2.5	* .141	.095	.086	.082	
15342CM	DC100	100pF	50	5 x 2.5	* .056	.039	.028	.022	
332232CM	CD120/50	120pF	50	5 x 2.5	* .056	.029	.027	.021	
332363CM	CD120/1000	120pF	1000	5 x 2.5	.23	.206	.147	.081	.071
332371CM	CD150/1000	150pF	1000	5 x 2.5	* .201	.143	.079	.068	
15414CM	DC220	220pF	50	5 x 2.5	* .05	.035	.025	.015	
332380CM	CD220/1000	220pF	1000	5 x 2.5	.42	.201	.143	.079	.068
15449CM	DC330	330pF	50	5 x 2.5	* .05	.035	.025	.019	
332398CM	CD330/1000	330pF	1000	5 x 2.5	.42	.235	.17	.096	.091
15529CM	DC470	470pF	50	5 x 2.5	* .09	.072	.028	.024	

\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Voltage (V)	Size (mm) Dia. x L.S.	Pricing				
					1	10	100	1000	5000
332401CM	CD470/1000	470pF	1000	5 x 2.5	\$.42	\$.235	\$.17	\$.096	\$.09
332419CM	CD560/1000	560pF	1000	6 x 2.5	* .043	.042	.041	.039	
332241CM	CD680/50	680pF	50	5 x 2.5	* .056	.03	.027	.021	
332427CM	CD680/1000	680pF	1000	6 x 2.5	* .149	.084	.071	.067	
207853CM	CD820/1000	820pF	1000	14 x 2.5	* .07	.063	.057	.051	
332435CM	CD1000/1000	1000pF	1000	5 x 2.5	.38	.235	.17	.096	.09
332259CM	CD1200/50	1200pF	50	5 x 2.5	* .056	.03	.027	.021	
332267CM	CD1500/50	1500pF	50	5 x 2.5	* .056	.03	.027	.021	
332275CM	CD2200/50	2200pF	50	5 x 2.5	* .074	.037	.033	.027	
332443CM	CD2200/1000	2200pF	1000	6 x 2.5	.42	.293	.235	.12	.112
332283CM	CD3300/50	3300pF	50	5 x 2.5	* .074	.037	.033	.027	
332451CM	CD4700/1000	4700pF	1000	7 x 2.5	.35	.34	.208	.198	.188
332460CM	CD5000/1000	5000pF	1000	7 x 2.5	.31	.30	.186	.177	.168
332478CM	CD7500/1000	7500pF	1000	8 x 2.5	.48	.456	.323	.307	.292
15191CM	DC.001	.001µF	50	6 x 2.5	* .067	.056	.028	.024	
97342CM	DC.0022/1K20	.0022µF	1000	11 x 2.5	.27	.22	.18	.16	.11
15212CM	DC.0047	.0047µF	50	6 x 2.5	* .097	.088	.083	.078	
15230CM	DC.01	.01µF	50	6 x 2.5	* .067	.045	.033	.023	
97376CM	DC.01/1K20	.01µF	1000	12 x 2.5	* .20	.133	.093	.073	
332486CM	CD20000/1000	.02µF	1000	16 x 2.5	.60	.57	.33	.26	.247
15246CM	DC.022	.022µF	50	8 x 2.5	* .07	.05	.04	.03	
15254CM	DC.047	.047µF	50	8 x 2.5	* .093	.077	.063	.044	
332494CM	CD47000/1000	.047µF	1000	16 x 2.5	1.59	1.22	.71	.68	.65
332507CM	CD50000/1000	.05µF	1000	16 x 2.5	1.35	1.28	.81	.65	.62
151117CM	DC.1/25	.1µF	25	6 x 2.5	* .155	.145	.089	.078	
15271CM	DC.1	.1µF	50	8 x 2.5	* .167	.145	.128	.105	
332515CM	CD100000/1000	.1µF	1000	21 x 2.5	1.95	1.79	1.05	.83	.79

### Other Manufacturers — Great Deals\*

135141CM	DC2.2	2.2pF	50	5	* .05	\$.032	\$.017	\$.014	
15333CM	DC10	10pF	50	5	* .063	.045	.018	.013	
15405CM	DC22	22pF	50	6	* .07	.05	.025	.02	
15510CM	DC47	47pF	50	5	* .05	.035	.02	.015	
15341CM	DC100	100pF	50	5	* .05	.035	.025	.02	
15413CM	DC220	220pF	50	5	* .045	.032	.023	.013	
15448CM	DC330	330pF	50	5	* .045	.032	.02	.015	
15528CM	DC470	470pF	50	5	* .08	.065	.025	.022	
15190CM	DC.001	.001µF	50	6	* .06	.054	.043	.032	

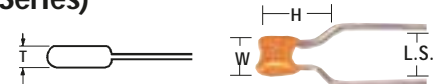
97341CM	DC.0022/1K20	.0022µF	1000	11	* .242	\$.166	\$.097	\$.072	
15211CM	DC.0047	.0047µF	50	6	* .045	.032	.027	.02	
15229CM	DC.01	.01µF	50	6	* .06	.04	.03	.02	
97375CM	DC.01/1K20	.01µF	1000	12	* .18	.12	.084	.066	
15245CM	DC.022	.022µF	50	8	* .063	.045	.036	.027	
15253CM	DC.047	.047µF	50	8	* .084	.069	.057	.04	
151116CM	DC.1/25	.1µF	25	6	* .14	.13	.08	.07	
15270CM	DC.1	.1µF	50	8	* .15	.13	.115	.095	

\* Capacitor dimensions and styles may vary

## Monolithic Ceramic Capacitors (±10%) (XR7 Series)

Applications: • Data processing  
Operating temp. range: -10°C to +85°C

• Communications engineering



\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
332582CM	MOC100/100	100pF	100	5.0x5.0x3.0x2.5	* .14	\$.12	\$.081	\$.071	
332591CM	MOC220/100	220pF	100	5.0x5.0x3.0x2.5	.27	.188	.134	.074	.07
332603CM	MOC330/100	330pF	100	5.0x5.0x3.0x2.5	.27	.188	.134	.094	.089
332611CM	MOC470/100	470pF	100	5.0x5.0x3.0x2.5	* .121	.088	.08	.076	
544825CM	SR151C102KAA	1000pF	100	3.8x2.5x3.8x5.1	* .087	.069	.043	.041	
332620CM	MOC1000/100	1000pF	100	5.0x5.0x3.0x2.5	* .107	.078	.055	.052	
544841CM	SR151C222KAA	2200pF	100	3.8x2.5x3.8x5.1	* .104	.094	.074	.071	
544850CM	SR151C472KAA	4700pF	100	3.8x2.5x3.8x5.1	* .114	.102	.081	.078	
332638CM	MOC4700/100	4700pF	100	5.0x5.0x3.0x2.5	* .107	.078	.055	.052	
597281CM	SR211C103KAA	.01µF	100	3.8x2.5x3.8x5.1	* .118	.098	.046	.044	
544833CM	SR151C103KAA	.01µF	100	3.8x2.5x3.8x5.1	* .103	.088	.054	.053	

\* Prepackaged: order in increments of 10, 100 or 1000

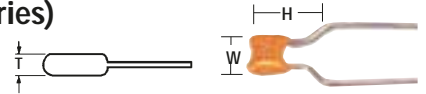
Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) WxTxHxL.S.	Pricing				
					1	10	100	1000	5000
332646CM	MOC10000/100	.01µF	100	5.0x5.0x3.0x2.5	* .125	\$.09	\$.063	\$.06	
544892CM	SR211C223KAA	.022µF	100	3.8x2.5x3.8x5.1	* .137	.13	.104	.10	
332654CM	MOC22000/100	.022µF	100	5.0x5.0x3.0x2.5	* .111	.08	.056	.053	
544905CM	SR211C333KAA	.033µF	100	3.8x2.5x3.8x5.1	* .142	.13	.105	.097	
544913CM	SR211C473KAA	.047µF	100	3.8x2.5x3.8x5.1	* .142	.139	.11	.107	
332662CM	MOC47000/100	.047µF	100	5.0x5.0x3.0x2.5	* .142	.104	.073	.069	
544921CM	SR215C104KAA	.1µF	50	3.8x2.5x3.8x5.1	* .111	.088	.057	.054	
544884CM	SR211C104KAA	.1µF	100	3.8x2.5x3.8x5.1	* .127	.09	.057	.056	
332671CM	MOC100000/100	.1µF	100	5.0x5.0x3.0x2.5	* .132	.096	.067	.064	
332689CM	MOC150000/100	.15µF	50	5.0x5.0x3.0x2.5	.45	.408	.366	.33	.314
544948CM	SR305C474KAA	.47µF	50	3.8x2.5x3.8x5.1	.46	.396	.24	.232	.224

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Monolithic Ceramic Capacitors (±20%) (Z5U Series)

**Applications:** • Data processing • Communications engineering  
**Operating temp. range:** -10°C to +85°C \* Prepackaged: order in increments of 10, 100 or 1000



\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
81542CM	MD10	10pF	50	3.5x2.0x3.0x2.5	*	\$ .10	\$ .065	\$ .045	\$ .034
332523CM	MOC10/100	10pF	100	4.2x3.0x4.2x2.5	*	.089	.065	.046	.044
332531CM	MOC15/100	15pF	100	4.2x3.0x4.2x2.5	.30	.202	.144	.101	.096
81534CM	MD22	22pF	50	4.0x2.0x4.0x2.5	*	.105	.081	.05	.045
332540CM	MOC22/100	22pF	100	4.2x3.0x4.2x2.5	*	.10	.073	.051	.048
332558CM	MOC33/100	33pF	100	4.2x3.0x4.2x2.5	*	.167	.122	.08	.076
332566CM	MOC47/100	47pF	100	4.2x3.0x4.2x2.5	*	.118	.086	.06	.057
332574CM	MOC68/100	68pF	100	4.2x3.0x4.2x2.5	.30	.202	.144	.101	.096
81526CM	MD100	100pF	50	3.5x2.0x3.0x2.5	*	.10	.078	.05	.039
81518CM	MD.001	.001µF	50	4.5x2.0x3.0x2.5	*	.10	.078	.075	.068
138182CM	MD.0022	.0022µF	50	4.0x2.0x5.5x2.5	*	.078	.067	.055	.041

Part No.	Cross Ref. No.	Value	Volt. (V)	Size (mm) W x T x H x L.S.	Pricing				
					1	10	100	1000	5000
25508CM	MD.01	.01µF	50	3.5x2.0x3.0x2.5	*	\$ .09	\$ .06	\$ .045	\$ .041
57622CM	MD.047	.047µF	50	2.5x2.5x3.0x2.5	*	.08	.07	.05	.039
544868CM	SR151C472KAA	.1µF	50	3.8x2.5x3.8x5.1	*	.094	.06	.034	.032
25524CM	MD.1	.1µF	50	6.0x2.0x4.0x2.5	*	.078	.067	.044	.039
25541CM	MD.22	.22µF	50	6.0x2.0x4.5x2.5	*	.189	.133	.089	.072
544930CM	SR215E34MAA	.33µF	50	3.8x2.5x3.8x5.1	*	.174	.111	.087	.081
138238CM	MD.33	.33µF	50	6.0x2.0x8.0x2.5	*	.178	.155	.122	.078
25559CM	MD.47	.47µF	50	4.5x2.5x4.5x2.5	.43	.39	.28	.21	.145
544956CM	SR305E105MAA	1µF	50	3.8x2.5x3.8x5.1	.20	.19	.149	.141	.131
81510CM	MD1	1µF	50	6.0x3.0x7.0x2.5	.53	.48	.355	.255	.233

### Other Manufacturers — Great Deals\*

81541CM	MD10	10pF	50	3.5x2.0x3.0	*	\$ .09	\$ .056	\$ .04	\$ .027
81533CM	MD22	22pF	50	4.0x2.0x4.0	*	.095	.073	.045	.04
81525CM	MD100	100pF	50	3.5x2.0x3.0	*	.09	.07	.045	.035
81517CM	MD.001	.001µF	50	4.5x2.0x3.0	*	.09	.07	.05	.035
138181CM	MD.0022	.0022µF	50	4.0x2.0x5.5	*	.07	.06	.05	.04
138202CM	MD.0047	.0047µF	50	5.0x2.0x5.5	*	.07	.063	.05	.038
25507CM	MD.01	.01µF	50	3.5x2.0x3.0	*	.10	.067	.05	.045

\* Capacitor dimensions and style may vary

Blue Part No. = Limited Quantity Available



## Motor Capacitors



• Operating temp.: -25°C to +85°C • Metal or plastic shell and double welding sheet metal • Insulation resistance: >300MΩ • Quick connect

### Motor Running Capacitors

Part No.	Cross Ref. No.	Value	Volt. (V)	Dimensions D x H (mm)	Pricing			
					1	10	100	500
332793CM	MRC370V2	2µF	370	34 x 50	\$4.69	\$4.17	\$3.88	\$3.69
332806CM	MRC370V4	4µF	370	34 x 50	5.05	4.80	4.33	3.90
332814CM	MRC370V5	5µF	370	34 x 50	3.85	3.68	3.12	2.81
332822CM	MRC370V7R5	7.5µF	370	36 x 80	5.89	3.96	3.38	3.04
332831CM	MRC370V10	10µF	370	42 x 80	4.85	4.06	3.46	3.29
332849CM	MRC370V15	15µF	370	40 x 70	6.05	5.07	4.38	4.16
332857CM	MRC370V25	25µF	370	40 x 70	8.05	6.76	5.83	5.54
332865CM	MRC440V10	10µF	440	40 x 70	6.49	5.47	4.72	4.48
332873CM	MRC440V20	20µF	440	40 x 70	9.99	8.51	7.27	6.91

### Motor Starting Capacitors

Part No.	Cross Ref. No.	Value	Volt. (V)	Dimensions D x H (mm)	Pricing			
					1	10	100	500
332697CM	MSC125V21	21µF	125	37 x 70	\$2.35	\$2.23	\$2.12	\$2.01
332700CM	MSC125V124	124µF	125	37 x 70	2.75	2.61	2.48	2.36
332718CM	MSC125V161	161µF	125	37 x 70	2.95	2.80	2.66	2.53
332726CM	MSC125V189	189µF	125	37 x 70	3.09	2.94	2.79	2.65
332734CM	MSC125V216	216µF	125	37 x 86	3.29	3.13	2.97	2.82
332742CM	MSC125V270	270µF	125	37 x 86	3.59	3.41	3.24	3.08
332751CM	MSC125V590	590µF	125	46 x 111	6.15	5.84	5.55	5.27
332769CM	MSC250V21	21µF	250	37 x 70	2.95	2.80	2.66	2.53
332777CM	MSC250V30	30µF	250	37 x 70	3.09	2.94	2.90	2.87
332785CM	MSC250V53	53µF	250	46 x 86	3.85	3.25	3.02	2.87

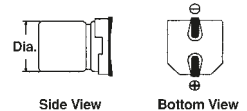
## Surface Mount Capacitors

### Aluminum Electrolytic Capacitors



Leakage Current (20°C) after 2 minutes ≤ .01CV or 3µA

**Operating Temperature Range: -40°C to +85°C**



\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610802CM	UWX1H0R1MCL1GB	0.1	50	4.0	*	\$ .108	\$ .096	\$ .091
610811CM	UWX1H0R1MCL2GB	0.1	50	3.0	*	.108	.096	.091
610829CM	UWX1HR22MCL1GB	0.22	50	4.0	*	.108	.096	.091
610837CM	UWX1HR22MCL2GB	0.22	50	3.0	*	.108	.096	.091
610845CM	UWX1HR33MCL1GB	0.33	50	4.0	*	.108	.096	.091
610853CM	UWX1HR33MCL2GB	0.33	50	3.0	*	.108	.096	.091
610861CM	UWX1HR47MCL1GB	0.47	50	4.0	*	.108	.096	.091
610870CM	UWX1HR47MCL2GB	0.47	50	3.0	*	.108	.096	.091
610888CM	UWX1V2R2MCL2GB	2.2	35	4.0	*	.103	.096	.088
610896CM	UWX1V3R3MCL2GB	3.3	35	4.0	*	.103	.096	.088
610909CM	UWX1V4R7MCL1GB	4.7	35	4.0	*	.103	.096	.088

† Cross Reference: Panasonic: VS Series

\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610706CM	UWX0G220MCL2GB	22	4	3.0	*	\$ .108	\$ .096	\$ .091
610773CM	UWX1A220MCL1GB	22	10	4.0	*	.103	.096	.091
610722CM	UWX0G330MCL1GB	33	4	4.0	*	.108	.096	.091
610749CM	UWX0J330MCL1GB	33	6.3	4.0	*	.113	.096	.091
610781CM	UWX1A330MCL1GB	33	10	4.0	*	.113	.096	.091
610731CM	UWX0G470MCL1GB	47	4	4.0	*	.108	.096	.091
610757CM	UWX0J470MCL1GB	47	6.3	5.0	*	.108	.096	.091
610790CM	UWX1A470MCL1GB	47	10	5.0	*	.113	.096	.091
610693CM	UWX0G101MCL1GB	100	4	5.0	*	.113	.096	.091
610765CM	UWX1A101MCL1GB	100	10	6.3	*	.113	.096	.091
610714CM	UWX0G221MCL1GB	220	4	6.3	*	.146	.136	.104

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



Tape

## Aluminum Electrolytic Capacitors (Continued)

Operating Temperature Range: -40°C to +85°C

**SALE**

Individual



### Other Manufacturers — Great Deals\*

* Prepackaged: order in increments of 10, 100 or 500								
Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
193228CM	SE1/50	1	50	4.0	*	\$.15	\$.14	\$.11
193236CM	SE2.2/50	2.2	50	4.0	*	\$.097	\$.088	\$.079
193244CM	SE3.3/50	3.3	50	4.0	*	\$.097	\$.088	\$.079
193076CM	SE427/25	4.7	25	4.0	*	\$.134	\$.114	\$.086
193252CM	SE4.7/50	4.7	50	5.0	*	\$.11	\$.096	\$.087
192997CM	SE10/16	10	16	4.0	*	\$.14	\$.12	\$.11
193084CM	SE10/25	10	25	5.0	*	\$.11	\$.097	\$.087
193164CM	SE10/35	10	35	5.0	*	\$.099	\$.09	\$.082
193261CM	SE10/50	10	50	6.3	*	\$.23	\$.168	\$.146
193009CM	SE22/16	22	16	5.0	*	\$.12	\$.11	\$.10
193092CM	SE22/25	22	25	6.3	*	\$.12	\$.111	\$.099
193172CM	SE22/35	22	35	6.3	*	\$.099	\$.09	\$.082
193279CM	SE22/50	22	50	6.3	*	\$.16	\$.155	\$.09
193017CM	SE33/16	33	16	5.0	*	\$.13	\$.118	\$.106
193105CM	SE33/25	33	25	6.3	*	\$.14	\$.129	\$.116
193181CM	SE33/35	33	35	8.0	*	\$.14	\$.13	\$.12
193287CM	SE33/50	33	50	8.0	*	\$.22	\$.20	\$.18
193113CM	SE47/25	47	25	6.3	*	\$.136	\$.122	\$.11
193199CM	SE47/35	47	35	6.3	*	\$.099	\$.089	\$.08

* Prepackaged: order in increments of 10, 100 or 500								
Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
193295CM	SE47/50	47	50	10.0	\$.27	\$.25	\$.23	\$.21
192903CM	SE100/6.3	100	6.3	6.3	\$.50	.20	.17	.135
193033CM	SE100/16	100	16	8.0	.25	.222	.20	.18
193121CM	SE100/25	100	25	8.0	*	.136	.122	.11
193201CM	SE100/35	100	35	10.0	.23	.20	.19	.17
193308CM	SE100/50	100	50	10.0	.38	.358	.322	.29
192962CM	SE220/10	220	10	8.0	.25	.24	.22	.20
193041CM	SE220/16	220	16	8.0	.34	.302	.272	.245
193130CM	SE220/25	220	25	10.0	.45	.40	.36	.33
193316CM	SE220/50	220	50	10.0	.36	.334	.267	.24
193148CM	SE330/25	330	25	8.0	.29	.24	.22	.20
192920CM	SE470/6.3	470	6.3	8.0	.25	.21	.18	.17
192971CM	SE470/10	470	10	8.0	.25	.23	.21	.19
193068CM	SE470/16	470	16	10.0	.44	.396	.317	.238
193156CM	SE470/25	470	25	10.0	.55	.47	.42	.39
192938CM	SE1000/6.3	1000	6.3	10.0	.35	.30	.28	.25
192989CM	SE1000/10	1000	10	10.0	.39	.35	.32	.29
192946CM	SE1500/6.3	1500	6.3	10.0	.35	.31	.29	.26

† Cross Reference: Panasonic: VS Series

\* Capacitor dimensions and styles may vary.

⚡ Blue Part No. = Limited Quantity Available

JAMECO  
ValuePro

EXCLUSIVE

## Operating Temperature Range: -55°C to +105°C

* Prepackaged: order in increments of 10, 100 or 500								
Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610431CM	UWT1H0R1MCL1GB	0.1	50	4.0	*	\$.116	\$.108	\$.098
610440CM	UWT1H0R1MCL2GB	0.1	50	3.0	*	.116	.108	.098
610546CM	UWT1HR22MCL1GB	0.22	50	4.0	*	.116	.108	.098
610554CM	UWT1HR22MCL2GB	0.22	50	3.0	*	.116	.108	.098
610562CM	UWT1HR33MCL1GB	0.33	50	4.0	*	.116	.108	.098
610571CM	UWT1HR33MCL2GB	0.33	50	3.0	*	.116	.108	.098
610589CM	UWT1HR47MCL1GB	0.47	50	4.0	*	.116	.108	.098
610597CM	UWT1HR47MCL2GB	0.47	50	3.0	*	.116	.108	.098
610423CM	UWT1H010MCL2GB	1	50	4.0	*	.116	.108	.098
608631CM	UUD1H010MCL1GS	1	50	4.0	.42	.367	.343	.29
610634CM	UWT1V2R2MCL2GB	2.2	35	4.0	*	.116	.108	.098
610491CM	UWT1H2R2MCL1GB	2.2	50	4.0	*	.116	.108	.098
610503CM	UWT1H2R2MCL2GB	2.2	50	3.0	*	.116	.108	.098
608665CM	UUD1H2R2MCL1GS	2.2	50	4.0	.42	.367	.343	.29
610669CM	UWT1V3R3MCL2GB	3.3	35	4.0	*	.134	.12	.098
608681CM	UUD1H3R3MCL1GS	3.3	50	4.0	.42	.367	.343	.29
610407CM	UWT1E4R7MCL1GB	4.7	25	4.0	*	.116	.108	.08
610415CM	UWT1E4R7MCL2GB	4.7	25	3.0	*	.116	.108	.09
610685CM	UWT1V4R7MCL1GB	4.7	35	4.0	*	.149	.12	.098
608788CM	UUD1V4R7MCL1GS	4.7	35	4.0	.42	.367	.343	.29
610538CM	UWT1H4R7MCL1GB	4.7	50	5.0	*	.149	.139	.118
608702CM	UUD1H4R7MCL1GS	4.7	50	4.0	.47	.403	.386	.325
610263CM	UWT1C100MCL1GB	10	16	4.0	*	.116	.108	.098
610271CM	UWT1C100MCL2GB	10	16	3.0	*	.116	.108	.098
610343CM	UWT1E100MCL1GB	10	25	5.0	.20	.164	.144	.096
610600CM	UWT1V100MCL1GB	10	35	5.0	.20	.164	.144	.096
608729CM	UUD1V100MCL1GS	10	35	5.0	.47	.413	.386	.326
610458CM	UWT1H100MCL1GB	10	50	6.3	.20	.164	.152	.096
608649CM	UUD1H100MCL1GS	10	50	6.3	.51	.431	.408	.352
610108CM	UWT0G220MCL1GB	22	4	4.0	*	.116	.108	.098
610167CM	UWT0J220MCL1GB	22	6.3	4.0	*	.116	.108	.098
610239CM	UWT1A220MCL1GB	22	10	4.0	*	.149	.139	.118
608489CM	UUD1A220MCL1GS	22	10	4.0	.42	.367	.343	.29
610298CM	UWT1C220MCL1GB	22	16	5.0	.20	.167	.144	.096
610351CM	UWT1E220MCL1GB	22	25	5.0	.20	.177	.152	.096
608577CM	UUD1E220MCL1GS	22	25	22.0	.47	.413	.386	.326
610618CM	UWT1V220MCL1GB	22	35	6.3	.20	.177	.152	.096
608745CM	UUD1V220MCL1GS	22	35	5.0	.47	.403	.386	.325

† Cross Reference: Panasonic: VS Series

⚡ Blue Part No. = Limited Quantity Available

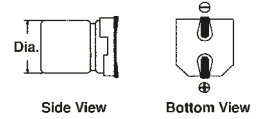
\* Prepackaged: order in increments of 10, 100 or 500

Part No.	Cross Ref. No.†	Value (µF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610474CM	UWT1H220MCL1GB	22	50	6.3	\$.26	\$.213	\$.184	\$.148
610124CM	UWT0G330MCL1GB	33	4	4.0	*	.116	.108	.103
610183CM	UWT0J330MCL1GB	33	6.3	4.0	*	.116	.108	.103
610247CM	UWT1A330MCL1GB	33	10	5.0	*	.149	.139	.118
608497CM	UUD1A330MCL1GS	33	10	5.0	.47	.413	.386	.326
610319CM	UWT1C330MCL1GB	33	16	5.0	.20	.167	.152	.096
610360CM	UWT1E330MCL1GB	33	25	6.3	.20	.187	.152	.096
608585CM	UUD1E330MCL1GS	33	25	6.3	.51	.447	.418	.352
610642CM	UWT1V330MCL1GB	33	35	6.3	.26	.213	.184	.12
608753CM	UUD1V330MCL1GS	33	35	6.3	.51	.447	.418	.352
610511CM	UWT1H330MCL1GS	33	50	6.3	.27	.213	.199	.104
608673CM	UUD1H330MCL1GS	33	50	6.3	.54	.472	.442	.224
610204CM	UWTOJ470MCL1GB	47	6.3	5.0	*	.136	.127	.118
608446CM	UUD0J470MCL1GS	47	6.3	5.0	.47	.413	.386	.326
610255CM	UWT1A470MCL1GB	47	10	5.0	.20	.164	.152	.096
610335CM	UWT1C470MCL1GB	47	16	6.3	.20	.177	.152	.096
608534CM	UUD1C470MCL1GS	47	16	6.3	.51	.447	.418	.352
610386CM	UWT1E470MCL1GB	47	25	6.3	.26	.213	.184	.148
608606CM	UUD1E470MCL1GS	47	25	6.3	.51	.447	.418	.352
610677CM	UWT1V470MCL1GS	47	35	6.3	.27	.213	.199	.168
608770CM	UUD1V470MCL1GS	47	35	6.3	.51	.431	.408	.352
610520CM	UWT1H470MCL1GS	47	50	6.3	.27	.213	.199	.112
608690CM	UUD1H470MCL1GS	47	50	6.3	.53	.446	.424	.224
608518CM	UUD1A680MCL1GS	68	10	—	.51	.447	.418	.352
608542CM	UUD1C680MCL1GS	68	16	6.3	.51	.447	.418	.352
608622CM	UUD1E680MCL1GS	68	25	6.3	.51	.447	.418	.352
608796CM	UUD1V680MCL1GS	68	35	6.3	.54	.472	.442	.224
608711CM	UUD1H680MCL1GS	68	50	8.0	.65	.57	.53	.269
610095CM	UWT0G101MCL1GB	100	4	6.3	*	.146	.137	.118
608403CM	UUD0J101MCL1GS	100	6.3	6.3	.51	.447	.418	.352
610132CM	UWT0J101MCL1GB	100	6.3	6.3	*	.146	.137	.118
608462CM	UUD1A101MCL1GS	100	10	—	.51	.447	.418	.352
610280CM	UWT1C101MCL1GB	100	16	7.0	.20	.177	.152	.096
608569CM	UUD1E101MCL1GS	100	25	6.3	.54	.472	.442	.224
608737CM	UUD1V101MCL1GS	100	35	8.0	.65	.57	.53	.269
610466CM	UWT1H101MCL1GS	100	50	8.0	.33	.257	.24	.158
608657CM	UUD1H101MCL1GS	100	50	8.0	.62	.518	.492	.269
610116CM	UWT0G221MCL1GB	220	4	6.3	.26	.213	.184	.12



## Aluminum Electrolytic Capacitors

Leakage Current (20°C) after 2 minutes ≤ .01CV or 3μA



Operating Temperature Range: -55°C to +105°C (Continued)

Part No.	Cross Ref. No.†	Value (μF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610175CM	UWTOJ221MCL1GB	220	6.3	6.3	\$.22	\$.213	\$.16	\$.128
608438CM	UUD0J221MCL1GS	220	6.3	6.3	.51	.447	.418	.352
608526CM	UUD1C221MCL1GS	220	16	6.3	.54	.472	.442	.224
610301CM	UWT1C221MCL1GS	220	16	6.3	.27	.213	.199	.104
610626CM	UWT1V221MNL1GS	220	35	8.0	.34	.321	.248	.158
610482CM	UWT1H221MNL1GS	220	50	10.0	.43	.331	.31	.158
610191CM	UWTOJ331MCL1GS	330	6.3	6.3	.27	.213	.199	.122
610327CM	UWT1C331MNL1GS	330	16	8	.33	.257	.24	.158
610378CM	UWT1E331MNL1GS	330	25	8	.33	.257	.24	.158
608593CM	UUD1E331MNL1GS	330	25	8	.65	.57	.53	.269
610651CM	UWT1V331MNL1GS	330	35	10	.43	.331	.31	.272
608761CM	UUD1V331MNL1GS	330	35	10	.70	.61	.57	.289

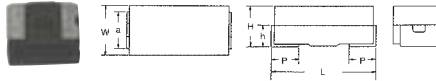
Part No.	Cross Ref. No.†	Value (μF)	Voltage (V)	Dia. (mm)	Pricing			
					1	10	100	500
610212CM	UWTOJ471MNL1GS	470	6.3	8	\$.33	\$.257	\$.24	\$.158
608500CM	UUD1A471MNL1GS	470	10	8	.65	.57	.53	.269
610394CM	UWT1E471MNL1GS	470	25	10	.43	.331	.31	.158
608614CM	UUD1E471MNL1GS	470	25	10	.70	.61	.57	.289
610221CM	UWTOJ681MNL1GS	680	6.3	8	.33	.257	.24	.158
608454CM	UUD0J681MNL1GS	680	6.3	8	.65	.57	.53	.269
608551CM	UUD1C681MNL1GS	680	16	10	.70	.61	.57	.289
610141CM	UWTOJ102MNL1GS	1000	6.3	8	.33	.257	.24	.158
608411CM	UUD0J102MNL1GS	1000	6.3	8	.65	.57	.53	.269
608471CM	UUD1A102MNL1GS	1000	10	10	.68	.58	.55	.289
610159CM	UWTOJ152MNL1GS	1500	6.3	10	.43	.331	.31	.155
608420CM	UUD0J152MNL1GS	1500	6.3	10	.70	.61	.57	.289

† Cross Reference: Panasonic: VS Series

## Resin Molded Chip Tantalum Electrolytic Capacitors (±10%)

Case Size (Dimensions in mm)

EIA	L	W	H	P	a	h(min)
Case Code	±0.2	±0.2	±0.2	±0.3	±0.2	
A (3216-18)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528-21)	3.5	2.8	1.9	0.8	2.2	0.7
C (6032-28)	6.0	3.2	2.6	1.3	2.2	1.0
D (7343-31)	7.3	4.3	2.9	1.3	2.4	1.0
E (7343-43)	7.3	4.3	4.1	1.3	2.4	1.0



JAMECO ValuePro		6.3V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
597311CM	10μF	A	\$.38	\$.307	\$.292	\$.278	
545027CM	10μF	A	.275	.243	.194	.119	

JAMECO ValuePro		10V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
545078CM	4.7μF	A	\$.134	\$.129	\$.122	\$.092	
597329CM	4.7μF	A	.38	.307	.292	.278	
545086CM	6.8μF	A	.266	.232	.219	.182	
597302CM	10μF	A	.323	.288	.255	.213	
545035CM	10μF	A	.172	.153	.138	.103	
545115CM	15μF	A	.326	.307	.30	.274	
545203CM	47μF	B	.444	.408	.367	.365	
545297CM	100μF	C	.73	.64	.55	.538	
597361CM	100μF	D	1.52	1.43	.69	.67	
545422CM	100μF	D	2.14	1.93	1.15	1.12	
545473CM	150μF	D	1.89	1.70	1.03	1.00	
597441CM	220μF	D	4.05	3.39	2.72	2.59	
545369CM	220μF	D	1.84	1.63	.87	.85	

JAMECO ValuePro		16V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
544981CM	0.1μF	A	\$.19	\$.169	\$.154	\$.147	
545043CM	2.2μF	A	.247	.216	.185	.154	
545051CM	3.3μF	A	.134	.129	.122	.092	
545174CM	4.7μF	B	.272	.242	.221	.213	
597337CM	10μF	B	.56	.504	.405	.365	
545140CM	10μF	B	.168	.161	.152	.145	
545211CM	10μF	C	.326	.289	.138	.136	
597345CM	22μF	B	.475	.384	.365	.347	
545166CM	22μF	B	.208	.207	.206	.205	
545300CM	22μF	C	.60	.532	.327	.311	
597353CM	47μF	C	.99	.94	.75	.73	
545271CM	47μF	C	.60	.513	.295	.287	
597417CM	47μF	D	1.52	1.43	.88	.86	
545393CM	47μF	D	.57	.502	.29	.258	
597425CM	100μF	E	3.91	3.03	2.44	2.32	
545449CM	100μF	D	1.64	1.54	1.24	1.20	

JAMECO ValuePro		50V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
544972CM	0.1μF	A	\$.516	\$.456	\$.365	\$.304	
545414CM	6.8μF	D	1.80	1.63	1.55	1.51	

JAMECO ValuePro		20V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
544999CM	0.1μF	A	\$.237	\$.208	\$.194	\$.173	
545060CM	3.3μF	A	.285	.248	.231	.141	
545220CM	10μF	C	.316	.28	.148	.14	
597409CM	33μF	D	1.52	1.43	.88	.86	
545377CM	33μF	D	.516	.456	.26	.258	
545553CM	68μF	D	4.66	3.21	1.98	1.88	

JAMECO ValuePro		25V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
545001CM	1μF	A	\$.247	\$.216	\$.203	\$.186	
545289CM	10μF	C	.60	.532	.258	.251	
597396CM	22μF	D	1.52	1.43	.88	.86	
545342CM	22μF	D	.57	.502	.26	.258	
545406CM	47μF	D	2.37	2.07	1.15	1.12	
545545CM	33μF	D	3.35	2.41	1.94	1.85	

JAMECO ValuePro		35V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
544964CM	0.1μF	A	\$.314	\$.302	\$.288	\$.216	
597290CM	1μF	A	.344	.304	.243	.20	
545131CM	1μF	B	.272	.242	.221	.203	
545158CM	2.2μF	B	.405	.39	.382	.374	
545254CM	2.2μF	C	.378	.334	.162	.158	
545262CM	3.3μF	C	.313	.284	.266	.20	
545385CM	4.7μF	D	.541	.491	.472	.449	
545238CM	10μF	C	.406	.369	.329	.328	
545326CM	10μF	D	.60	.532	.30	.298	
597388CM	15μF	D	1.52	1.43	.88	.86	
545334CM	15μF	D	.66	.60	.33	.328	
597433CM	22μF	D	3.95	3.12	2.51	2.39	
545351CM	22μF	D	1.32	1.17	.56	.545	

\* Prepackaged: order in quantity increments shown

## Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

• Case sizes and photos are same as above

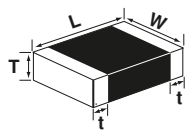
JAMECO ValuePro		10V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
87021CM	10μF	B	\$.258	\$.228	\$.181	\$.151	
597370CM	10μF	D	1.64	1.45	.69	.67	
87119CM	100μF	D	.92	.88	.83	.80	
Other Manufacturers — Great Deals							
87020CM	10μF	B	\$.203	\$.15	\$.136	\$.102	
87118CM	100μF	D	.80	.76	.73	.69	

JAMECO ValuePro		16V SMT		Pricing per each*			
Part No.	Capacitance	Case Size		10	100	500	1000
86933CM	1μF	A	\$.19	\$.15	\$.11	\$.105	
545246CM	10μF	C	.275	.243	.138	.136	
87039CM	10μF	C	.32	.29	.25	.23	
87101CM	47μF	D	1.01	.90	.80	.70	
Other Manufacturers — Great Deals							
86932CB	1μF	A	\$.148	\$.133	\$.107	\$.08	
87038CM	10μF	C	.27	.24	.22	.18	
87100CM	47μF	D	.73	.70	.66	.63	

## Commercial Customers

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## Multilayer Ceramic Chip Capacitors

### X7R Series (±10%)

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

JAMECO 0402 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
543751CM	560pF	50	\$.078	\$.064	\$.061	\$.058
543734CM	1000pF	50	.087	.051	.03	.021
543769CM	.01µF	50	.088	.059	.048	.033

#### Other Manufacturers — Great Deals

646485CM	330pF	50	\$.231	\$.137	\$.079	\$.056
646493CM	390pF	50	.077	.046	.026	.018
646506CM	470pF	50	.231	.133	.079	.055
646514CM	560pF	50	.077	.046	.026	.018
646522CM	680pF	50	.077	.046	.026	.018
646531CM	820pF	50	.077	.046	.026	.018
646549CM	1000pF	50	.077	.046	.026	.018
646557CM	1200pF	50	.077	.046	.026	.018
646565CM	1500pF	50	.231	.137	.079	.055
646573CM	1800pF	50	.231	.137	.079	.055
646581CM	2200pF	50	.193	.114	.065	.046
646590CM	2700pF	50	.231	.137	.079	.055
646602CM	3300pF	50	.077	.046	.026	.018
646611CM	3900pF	50	.231	.137	.079	.055
646629CM	4700pF	50	.077	.046	.026	.018
646637CM	5600pF	50	.154	.091	.053	.036
646645CM	6800pF	50	.154	.091	.053	.036
646653CM	8200pF	50	.154	.091	.053	.036
646661CM	.01µF	16	.077	.046	.026	.018
646670CM	.012µF	16	.077	.046	.026	.018
646688CM	.015µF	16	.077	.046	.026	.018
646696CM	.018µF	16	.077	.046	.026	.018
646709CM	.022µF	16	.077	.046	.026	.018

JAMECO 0603 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544083CM	470pF	16	\$.095	\$.055	\$.04	\$.034
544041CM	1000pF	50	.074	.047	.024	.017
543831CM	1000pF	100	.087	.052	.03	.021
543857CM	2200pF	100	.165	.099	.04	.024
543865CM	3300pF	100	.15	.088	.04	.024
543873CM	4700pF	25	.126	.099	.057	.04
544059CM	.01µF	50	.079	.047	.024	.017
543849CM	.01µF	100	.279	.184	.123	.086
544067CM	.015µF	50	.087	.045	.03	.021
544075CM	.022µF	50	.087	.046	.037	.021
543881CM	.047µF	25	.091	.06	.054	.042
544091CM	.1µF	16	.079	.047	.024	.017

#### Other Manufacturers — Great Deals

649483CM	1000pF	50	\$.062	\$.036	\$.021	\$.015
649491CM	1200pF	50	.077	.046	.026	.018
649504CM	1500pF	50	.077	.046	.026	.018
649512CM	1800pF	50	.077	.046	.026	.018
649521CM	2200pF	50	.077	.046	.026	.018
649539CM	2700pF	50	.077	.046	.026	.018
649547CM	3300pF	50	.154	.091	.053	.036
649555CM	3900pF	50	.063	.046	.026	.018
649563CM	4700pF	50	.131	.077	.045	.031
649571CM	5600pF	50	.077	.046	.026	.018
649580CM	6800pF	50	.112	.087	.05	.035
649598CM	8200pF	50	.077	.046	.026	.018
649601CM	.01µF	50	.062	.036	.021	.015
649619CM	.012µF	50	.077	.046	.026	.018
649627CM	.015µF	50	.077	.046	.026	.018
649635CM	.018µF	50	.077	.046	.026	.018

0603 SMT (Continued)		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
649643CM	.022µF	50	\$.077	\$.046	\$.026	\$.018
649651CM	.027µF	50	.077	.046	.026	.018
649660CM	.033µF	50	.077	.046	.026	.018
649678CM	.039µF	50	.077	.046	.026	.018

JAMECO 0805 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544323CM	1000pF	50	\$.079	\$.051	\$.03	\$.021
544235CM	1000pF	200	.21	.20	.17	.146
544201CM	2200pF	100	.087	.051	.03	.021
544227CM	3300pF	100	.087	.052	.03	.021
544382CM	4700pF	50	.071	.051	.03	.021
87312CM	.01µF	50	.048	.029	.017	.01
544198CM	.01µF	100	.087	.051	.03	.021
544331CM	.01µF	50	.071	.051	.03	.021
544219CM	.022µF	100	.19	.125	.072	.037
544366CM	.033µF	50	.119	.104	.06	.042
544374CM	.039µF	50	.087	.051	.03	.021
544391CM	.047µF	50	.087	.051	.03	.021
544403CM	.068µF	50	.087	.051	.03	.021
544462CM	.1µF	16	.257	.24	.15	.073
87371CM	.1µF	25	.054	.033	.022	.016
544340CM	.1µF	50	.087	.051	.03	.021
544438CM	.22µF	16	.13	.077	.045	.031
544243CM	.22µF	25	.174	.104	.06	.042
544358CM	.22µF	50	.087	.051	.03	.021
544446CM	.33µF	16	.348	.208	.12	.084
544454CM	.47µF	16	.348	.208	.12	.084
544471CM	.1µF	10	.388	.376	.304	.178

#### Other Manufacturers — Great Deals

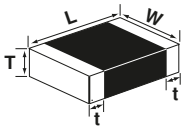
650257CM	3300pF	50	\$.077	\$.046	\$.026	\$.018
650265CM	3900pF	50	.07	.056	.053	.036
650273CM	4700pF	50	.07	.046	.026	.018
650281CM	5600pF	50	.154	.091	.053	.036
650290CM	6800pF	50	.154	.091	.053	.036
650302CM	8200pF	50	.162	.096	.055	.038
87311CM	.01µF	50	.047	.028	.016	.009
650311CM	.012µF	50	.077	.046	.026	.018
650329CM	.015µF	50	.119	.091	.053	.036
650337CM	.018µF	50	.154	.091	.053	.036
650345CM	.022µF	50	.077	.046	.026	.018
650353CM	.027µF	50	.077	.046	.026	.018
650361CM	.033µF	50	.105	.091	.053	.036
650370CM	.039µF	50	.077	.046	.026	.018
650388CM	.047µF	50	.077	.046	.026	.018
650396CM	.056µF	50	.077	.046	.026	.018
650409CM	.068µF	50	.077	.046	.026	.018
650417CM	.082µF	50	.077	.046	.026	.018
87370CM	.1µF	25	.048	.033	.022	.016
650425CM	.1µF	50	.077	.046	.026	.018
650441CM	.22µF	16	.116	.068	.039	.027
650450CM	.33µF	16	.182	.105	.073	.066
650468CM	.47µF	16	.182	.105	.073	.066
650476CM	.1µF	10	.329	.263	.182	.164

\* Prepackaged: order in quantity increments shown

JAMECO 1206 SMT		Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544585CM	1000pF	100	\$.158	\$.144	\$.087	\$.037
544614CM	2000pF	100	.158	.144	.087	.035
544649CM	4700pF	100	.158	.144	.087	.035
87330CM	.01µF	50	.078	.047	.033	.024
544593CM	.01µF	100	.10	.085	.067	.05
544622CM	.022µF	100	.158	.144	.09	.031
544631CM	.033µF	100	.158	.144	.12	.035
544657CM	.047µF	100	.158	.144	.12	.035
544702CM	.1µF	50	.113	.097	.06	.042
87389CM	.1µF	50	.084	.055	.038	.037
544606CM	.1µF	100	.209	.182	.105	.073
87397CM	.22µF	25	.134	.095	.066	.059
544711CM	.22µF	50	.261	.156	.09	.067
544729CM	.33µF	50	.352	.312	.182	.082
544673CM	.47µF	25	.435	.26	.15	.105
544665CM	.1µF	25	.348	.208	.12	.084

#### Other Manufacturers — Great Deals

651137CM		1000pF	50	\$.14	\$.125	\$.072	\$.05
651145CM		1200pF	50	.212	.125	.072	.05
651153CM		1500pF	50	.212	.125	.072	.05
651161CM		1800pF	50	.212	.125	.072	.05
651170CM		2200pF	50	.154	.125	.072	.05
651188CM		3300pF	50	.14	.125	.072	.05
651196CM		3900pF	50	.212	.125	.072	.05
651209CM		4700pF	50	.14	.13	.092	.064
651217CM		5600pF	50	.212	.125	.072	.05
651225CM		6800pF	50	.126	.105	.072	.05
651233CM		8200pF	50	.212	.125	.072	.05
87329CM	⊕	.01μF	50	.074	.047	.031	.022
651241CM		.012μF	50	.223	.132	.076	.053
651250CM		.015μF	50	.223	.132	.076	.053
651268CM		.018μF	50	.223	.132	.076	.053
651276CM		.022μF	50	.161	.132	.076	.053
651284CM		.027μF	50	.161	.132	.076	.053
651292CM		.033μF	50	.14	.126	.076	.053
651305CM		.039μF	50	.223	.132	.076	.053
651313CM		.047μF	50	.14	.126	.076	.053
651321CM		.056μF	50	.246	.146	.084	.058
651330CM		.068μF	50	.246	.146	.084	.058
651348CM		.082μF	50	.246	.146	.084	.058
87388CM		.1μF	50	.049	.029	.019	.016
651356CM		.12μF	50	.231	.137	.079	.055
651364CM		.15μF	50	.231	.137	.079	.055
651372CM		.18μF	50	.231	.137	.079	.055
87396CM	⊕	.22μF	25	.134	.095	.086	.077
651381CM		.22μF	50	.231	.137	.079	.055
651399CM		.27μF	50	.182	.105	.073	.066
651401CM		.33μF	50	.306	.281	.164	.114
651410CM		.47μF	50	.228	.131	.091	.082
651436CM		1μF	16	.399	.26	.18	.162
651428CM		1μF	25	.182	.105	.073	.066
651444CM		2.2μF	10	.55	.315	.218	.196



## Multilayer Ceramic Chip Capacitors

SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

### X7R Series (±10%) (Continued)

JAMECO ValuePro		1210 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544770CM	1µF	50		\$ .238	\$ .224	\$ .194	\$ .13
544761CM	1µF	100		.238	.224	.15	.104
544788CM	.22µF	50		.323	.304	.188	.131
544796CM	.47µF	50		.63	.57	.334	.163
<b>Other Manufacturers — Great Deals</b>							
651612CM	.1µF	50		\$ .224	\$ .196	\$ .176	\$ .112
651639CM	.22µF	50		.27	.16	.11	.10
651647CM	.33µF	50		.46	.29	.20	.18
651655CM	.47µF	50		.50	.29	.20	.18
651663CM	1µF	50		.57	.46	.32	.29
651671CM	2.2µF	25		1.34	.93	.534	.481
651680CM	4.7µF	16		1.15	.92	.59	.53
651701CM	4.7µF	25		1.31	.78	.45	.405
651698CM	10µF	10		1.21	.70	.33	.30

JAMECO ValuePro		1812 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544817CM	1µF	50		\$ 1.40	\$ 1.32	\$ .77	\$ .372

### COG Series (±5%)

JAMECO ValuePro		0603 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
543785CM	10pF	100		\$ .165	\$ .099	\$ .057	\$ .04
543806CM	22pF	100		.087	.052	.03	.021
543814CM	33pF	100		.087	.052	.03	.021
543793CM	100pF	100		.087	.052	.03	.021
543988CM	270pF	50		.087	.052	.03	.021
544008CM	330pF	50		.131	.104	.06	.042
543822CM	680pF	100		.087	.052	.029	.025

JAMECO ValuePro		0805 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544121CM	10pF	100		\$ .079	\$ .071	\$ .06	\$ .042
544155CM	15pF	100		.134	.104	.06	.042
544286CM	270pF	50		.134	.104	.06	.042
544294CM	330pF	50		.087	.051	.03	.021
544307CM	470pF	50		.104	.062	.036	.025
544315CM	680pF	50		.15	.104	.06	.042
544260CM	1000pF	50		.169	.154	.15	.146
544147CM	1000pF	100		.19	.156	.09	.062
544278CM	2200pF	50		.235	.14	.081	.056

JAMECO ValuePro		1206 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544551CM	330pF	100		\$ .19	\$ .176	\$ .144	\$ .122
544681CM	1000pF	50		.257	.24	.14	.063
544690CM	2200pF	50		.286	.272	.16	.062

### NPO Temp Series (±10%)

JAMECO ValuePro		0402 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
543726CM	100pF	50		\$ .198	\$ .13	\$ .064	\$ .052
543742CM	220pF	50		.198	.13	.064	.052

### X5R Series (±10%)

JAMECO ValuePro		0603 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544104CM	1µF	10		\$ .139	\$ .083	\$ .041	\$ .034
<b>Other Manufacturers — Great Deals</b>							
649686CM	.1µF	25		\$ .205	\$ .159	\$ .092	\$ .064
649707CM	.22µF	16		.267	.182	.105	.073
649694CM	.22µF	25		.288	.205	.118	.082
649715CM	.33µF	16		.131	.077	.045	.031
649723CM	.47µF	16		.131	.077	.045	.031
649758CM	1µF	6.3		.35	.273	.158	.109
649740CM	1µF	10		.042	.032	.023	.014
649731CM	1µF	16		.154	.091	.053	.036
649766CM	2.2µF	6.3		.267	.182	.105	.073
649774CM	4.7µF	6.3		.45	.364	.146	.125

JAMECO ValuePro		0805 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544489CM	2.2µF	10		\$ .348	\$ .208	\$ .122	\$ .084
544420CM	4.7µF	6.3		.478	.286	.167	.116
544411CM	10µF	6.3		.211	.186	.177	.168
<b>Other Manufacturers — Great Deals</b>							
650484CM	.33µF	25		\$ .467	\$ .341	\$ .197	\$ .137
650492CM	.47µF	25		.467	.36	.144	.099
650530CM	1µF	10		.27	.182	.105	.073
650513CM	1µF	16		.193	.114	.066	.046
650505CM	1µF	25		.65	.50	.289	.20
650548CM	2.2µF	10		.257	.182	.105	.073
650521CM	2.2µF	16		.57	.41	.236	.164
650556CM	3.3µF	10		.357	.273	.158	.109
650572CM	4.7µF	6.3		.25	.14	.10	.09
650564CM	4.7µF	10		.357	.296	.171	.118
650581CM	10µF	6.3		.46	.26	.18	.16

JAMECO ValuePro		1206 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544753CM	4.7µF	10		\$ .56	\$ .468	\$ .273	\$ .19
<b>Other Manufacturers — Great Deals</b>							
651479CM	2.2µF	16		\$ .41	\$ .236	\$ .164	\$ .148
651452CM	2.2µF	25		.364	.21	.146	.131
651508CM	4.7µF	10		.41	.236	.164	.148
651487CM	4.7µF	16		1.10	.84	.486	.437
651461CM	4.7µF	25		.455	.263	.182	.164
651532CM	10µF	6.3		.84	.59	.341	.237
651516CM	10µF	10		.50	.289	.20	.18
651495CM	10µF	16		1.48	.87	.50	.475
651524CM	22µF	6.3		1.02	.59	.54	.513

JAMECO ValuePro		1210 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
544809CM	10µF	10		\$ 1.80	\$ 1.08	\$ .62	\$ .432
<b>Other Manufacturers — Great Deals</b>							
651727CM	4.7µF	16		\$ .73	\$ .42	\$ .29	\$ .26
651786CM	10µF	10		1.62	.97	.56	.504
651735CM	10µF	16		1.09	.63	.37	.393
651719CM	10µF	25		1.01	.60	.42	.38
651751CM	22µF	6.3		3.01	2.53	1.04	.94
651794CM	22µF	10		2.54	1.52	.88	.80
651743CM	22µF	16		1.98	1.75	1.17	1.05
651760CM	47µF	6.3		1.69	1.63	1.55	1.47
651778CM	100µF	6.3		5.62	3.37	1.95	1.75

### X5R Series (±10%) (Continued)

1812 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
651831CM	1µF	50	\$1.26	\$1.19	\$.70	\$.63
651840CM	10µF	25	2.42	1.97	1.77	1.58
651858CM	22µF	10	2.62	1.97	1.77	1.58
651866CM	47µF	6.3	5.94	3.56	3.20	2.88
651874CM	100µF	6.3	2.19	2.01	1.81	1.63

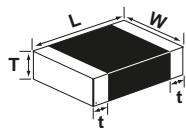
\* Prepackaged: order in quantity increments shown

### NPO Temp Series (±5%)

0402 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
645984CM	1pF	50	\$.077	\$.046	\$.026	\$.018
645992CM	2.2pF	50	.231	.133	.079	.055
646004CM	3.3pF	50	.231	.133	.079	.055
646012CM	3.9pF	50	.231	.133	.105	.073
646021CM	4.7pF	50	.231	.133	.105	.073
646039CM	5.6pF	50	.231	.133	.079	.055
646047CM	6.8pF	50	.231	.133	.105	.073
646055CM	8.2pF	50	.231	.137	.079	.055
646063CM	10pF	50	.077	.046	.026	.018
646071CM	15pF	50	.077	.046	.026	.018
646080CM	18pF	50	.077	.046	.026	.018
646098CM	22pF	50	.077	.046	.026	.018
646101CM	27pF	50	.077	.046	.026	.018
646119CM	33pF	50	.077	.046	.026	.018
646127CM	39pF	50	.077	.046	.026	.018
646135CM	47pF	50	.077	.046	.026	.018
646143CM	56pF	50	.077	.046	.026	.018
646151CM	68pF	50	.077	.046	.026	.018
646160CM	82pF	50	.231	.137	.079	.055
646178CM	100pF	50	.193	.114	.065	.046
646186CM	120pF	50	.077	.046	.026	.018
646194CM	150pF	50	.046	.035	.026	.018
646207CM	180pF	50	.077	.046	.026	.018
646215CM	220pF	50	.231	.137	.079	.055

JAMECO ValuePro		0603 SMT		Pricing per each*			
Part No.	Capacitance	Volt.		10	100	500	1000
543902CM	10pF	50		\$.074	\$.063	\$.04	\$.024
543911CM	12pF	50		.131	.055	.044	.031
543937CM	15pF	50		.074	.059	.03	.021
543953CM	18pF	50		.074	.063	.04	.024
543961CM	22pF	50		.074	.059	.03	.021
543996CM	33pF	50		.074	.063	.04	.024
544016CM	39pF	50		.074	.063	.04	.034
544024CM	47pF	50		.087	.051	.03	.021
544032CM	82pF	50		.165	.099	.057	.04
543929CM	120pF	50		.074	.063	.04	.024
543945CM	150pF	50		.082	.059	.03	.021
543970CM	220pF	50		.082	.069	.049	.037
Other Manufacturers — Great Deals							
646725CM	1pF	50		\$.14	\$.087	\$.05	\$.035
646733CM	2.2pF	50		.133	.077	.05	.035
646741CM	3.3pF	50		.146	.087	.05	.021
646750CM	3.9pF	50		.146	.087	.05	.035
646768CM	4.7pF	50		.146	.087	.05	.035
646776CM	5.6pF	50		.146	.087	.05	.035
646784CM	6.8pF	50		.146	.087	.05	.035
646792CM	8.2pF	50		.146	.087	.05	.035





## Multilayer Ceramic Chip Capacitors

### NPO Temp Series (±5%) (Continued)

0603 SMT (Continued)			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
646805CM	10pF	50	\$.131	\$.077	\$.045	\$.021
646813CM	15pF	50	.077	.046	.026	.018
646821CM	18pF	50	.133	.077	.05	.021
646830CM	22pF	50	.077	.053	.046	.018
646848CM	27pF	50	.077	.046	.026	.018
646856CM	33pF	50	.116	.068	.039	.021
646864CM	39pF	50	.133	.077	.05	.031
646872CM	47pF	50	.077	.046	.026	.018
646881CM	56pF	50	.146	.087	.05	.035
646899CM	68pF	50	.154	.091	.053	.021
646901CM	82pF	50	.146	.087	.05	.035
646910CM	100pF	50	.077	.046	.026	.018
646928CM	120pF	50	.154	.091	.053	.021
646936CM	150pF	50	.077	.046	.026	.018
646944CM	180pF	50	.077	.046	.026	.018
646952CM	220pF	50	.154	.091	.053	.036
646961CM	270pF	50	.077	.046	.026	.018
646979CM	330pF	50	.154	.091	.053	.036
646987CM	390pF	50	.147	.091	.053	.035
646995CM	470pF	50	.077	.046	.026	.018
647007CM	560pF	50	.154	.091	.053	.036
647015CM	680pF	50	.154	.091	.053	.036
647023CM	820pF	50	.193	.114	.066	.046
647031CM	1000pF	50	.077	.046	.026	.018

JAMECO ValuePro 0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
544171CM	47pF	100	\$.079	\$.072	\$.06	\$.042
544251CM	100pF	50	.087	.051	.03	.021
544139CM	100pF	100	.079	.071	.06	.042
544163CM	220pF	100	.134	.12	.081	.056
544180CM	470pF	100	.134	.104	.06	.042
<b>Other Manufacturers — Great Deals</b>						
649900CM	1pF	50	\$.07	\$.056	\$.053	\$.036
649918CM	2.2pF	50	.162	.096	.055	.038
649926CM	3.3pF	50	.162	.096	.055	.038
649934CM	3.9pF	50	.162	.096	.055	.038
649942CM	4.7pF	50	.126	.096	.055	.038
649951CM	5.6pF	50	.126	.096	.055	.038
649969CM	6.8pF	50	.126	.096	.055	.038
649977CM	8.2pF	50	.126	.096	.055	.038
649985CM	10pF	50	.07	.046	.026	.018
649993CM	15pF	50	.07	.046	.026	.018
650003CM	18pF	50	.07	.046	.026	.018
650011CM	22pF	50	.07	.046	.026	.018
650020CM	27pF	50	.07	.046	.026	.018
650038CM	33pF	50	.07	.046	.026	.018
650046CM	39pF	50	.07	.046	.026	.018
650054CM	47pF	50	.07	.046	.026	.018
650062CM	56pF	50	.07	.046	.026	.018
650071CM	68pF	50	.07	.046	.026	.018
650089CM	82pF	50	.077	.046	.026	.018
650097CM	100pF	50	.077	.046	.026	.018
650100CM	120pF	50	.077	.046	.026	.018
650118CM	150pF	50	.077	.046	.026	.018
650126CM	180pF	50	.116	.068	.039	.027
650134CM	220pF	50	.077	.046	.026	.018
650142CM	270pF	50	.119	.091	.053	.036
650151CM	330pF	50	.077	.046	.026	.018
650169CM	390pF	50	.092	.055	.032	.022
650177CM	470pF	50	.092	.055	.032	.022
650185CM	560pF	50	.116	.068	.039	.027

0805 SMT (Continued)			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
<b>Other Manufacturers — Great Deals</b>						
650193CM	680pF	50	\$.133	\$.091	\$.053	\$.036
650206CM	820pF	50	.116	.068	.039	.027
650214CM	1000pF	50	.154	.091	.053	.036
650222CM	1500pF	50	.208	.123	.071	.049
650231CM	2200pF	50	.208	.123	.071	.049
650249CM	3300pF	50	.43	.257	.151	.104

JAMECO ValuePro 1206 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
544497CM	10pF	100	\$.19	\$.176	\$.144	\$.122
544526CM	15pF	100	.276	.256	.191	.064
544534CM	22pF	100	.19	.176	.144	.122
544542CM	33pF	100	.342	.248	.144	.043
544569CM	47pF	100	.19	.176	.144	.122
544500CM	100pF	100	.19	.176	.144	.122
544577CM	680pF	100	.257	.24	.14	.059
544518CM	1000pF	100	.257	.24	.211	.169

<b>Other Manufacturers — Great Deals</b>						
650716CM	1pF	50	\$.246	\$.146	\$.084	\$.058
650724CM	2.2pF	50	.246	.146	.084	.058
650732CM	3.3pF	50	.246	.146	.084	.058
650741CM	3.9pF	50	.246	.146	.084	.058
650759CM	4.7pF	50	.246	.146	.084	.05
650767CM	5.6pF	50	.246	.146	.084	.058
650775CM	6.8pF	50	.246	.146	.084	.058
650783CM	8.2pF	50	.147	.126	.084	.058
650791CM	10pF	50	.175	.154	.10	.069
650804CM	15pF	50	.189	.168	.10	.069
650812CM	18pF	50	.297	.178	.104	.072
650821CM	22pF	50	.175	.153	.088	.061
650839CM	27pF	50	.297	.178	.104	.072
650847CM	33pF	50	.175	.154	.10	.069
650855CM	39pF	50	.189	.168	.10	.069
650863CM	47pF	50	.175	.154	.10	.069
650871CM	56pF	50	.245	.178	.104	.056
650880CM	68pF	50	.189	.168	.10	.069
650898CM	82pF	50	.297	.178	.104	.072
650901CM	100pF	50	.175	.154	.10	.069
650919CM	120pF	50	.259	.173	.10	.069
650927CM	150pF	50	.259	.214	.123	.086
650935CM	180pF	50	.245	.18	.126	.069
650943CM	220pF	50	.175	.154	.123	.086
650951CM	270pF	50	.364	.218	.126	.088
650960CM	330pF	50	.175	.154	.123	.086
650978CM	390pF	50	.364	.218	.126	.088
650986CM	470pF	50	.238	.21	.122	.085
650994CM	560pF	50	.364	.218	.126	.088
651006CM	680pF	50	.259	.212	.122	.085
651014CM	820pF	50	.364	.218	.126	.088
651022CM	1000pF	50	.238	.21	.122	.085
651031CM	1200pF	50	.39	.233	.135	.095
651049CM	1500pF	50	.39	.223	.135	.095
651057CM	1800pF	50	.469	.281	.164	.114
651065CM	2200pF	50	.265	.245	.143	.101
651073CM	2700pF	50	.098	.084	.079	.07
651081CM	3300pF	50	.405	.295	.172	.08
651090CM	3900pF	50	.416	.249	.144	.101
651102CM	4700pF	50	.416	.295	.172	.12
651111CM	5600pF	50	.416	.295	.172	.12
651129CM	.01μF	25	.387	.223	.192	.155

### SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210	1812
L	1.0	1.6	2.0	3.2	3.2	4.5
W	0.5	0.81	1.25	1.6	2.5	3.2
T	1.02	1.02	0.065	1.55	1.02	1.52
t	0.25	0.35	0.25	0.5	0.5	0.61

### Z5U Series (±20%)

JAMECO ValuePro 0805 SMT			Pricing per each*			
Part No.	Capacitance	Voltage	100	500	1000	5000
87177CM	.1μF	50	\$.035	\$.033	\$.028	\$.024

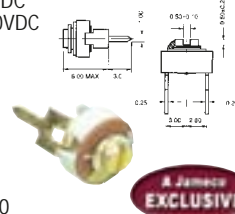
JAMECO ValuePro 1206 SMT			Pricing per each*			
Part No.	Capacitance	Voltage	100	500	1000	5000
87185CM	.1μF	50	\$.072	\$.062	\$.044	\$.035
87206CM	.22μF	50	.081	.053	.044	.033
87222CM	.47μF	50	.225	.198	.171	.153

\* Prepackaged: order in quantity increments shown



## 5mm Ceramic Trimmer Capacitor

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35-200 g-cm
- Operating temperature range: -30°C~+85°C
- Insulation resistance: >10MΩ min. @ 250VDC
- Q Factor @ 1MHz: >200



Part No.	Capacitance Range (pF)	Color Codes	Pricing			
			1	10	100	1000
136979CM	9.0-50.0	Green	\$.89	\$.80	\$.64	\$.48



## 8mm (.315") Thru-Hole Ceramic Trimmer Capacitors

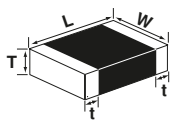
- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40-200 g-cm
- Operating temperature range: -55°C~+85°C
- Insulation resistance: 10MΩ min. @ 250VDC
- Q Factor @ 1MHz:
- 134819CM/32838CM/134818CM: >300
- 32854CM/94449CM/94465CM: >200

134818CM

Part No.	Capacitance Range (pF)	Color Codes	Pricing			
			1	10	100	1000
134819CM	3.5-13.0	Ivory	\$.49	\$.39	\$.39	\$.36
32838CM	4.0-34.0	Yellow	.99	.84	.77	.58
32854CM	6.0-70.0	None	.92	.78	.72	.68
94449CM	8.5-100	Purple	1.05	.94	.76	.57
94465CM	8.5-120	None	.99	.79	.65	.59

<b>Other Manufacturers — Great Deals</b>						
134818CM	3.5-13.0	Ivory	\$.62	\$.55	\$.45	\$.335

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**NewProducts@Jameco.com**  
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## Multilayer Ceramic Chip Capacitors



SMT Case Dimensions (mm)

	0402	0603	0805	1206	1210
L	1.0	1.6	2.0	3.2	3.2
W	0.5	0.81	1.25	1.6	2.5
T	1.02	1.02	0.065	1.55	1.02
t	0.25	0.35	0.25	0.5	0.5

### X5V Series (+80%, -20%)

JAMECO ValuePro	0402 SMT	Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
543777CM	0.1uF	16	\$ .163	\$ .104	\$ .099	\$ .099

### Y5V Series (±20%)

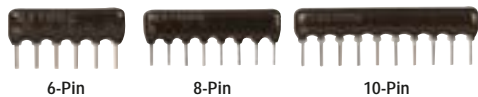
0603 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
649782CM	0.01uF	50	\$ .063	\$ .046	\$ .026	\$ .018
649838CM	0.1uF	25	.077	.046	.018	.026
649846CM	0.15uF	25	.154	.091	.053	.036
649854CM	0.22uF	25	.077	.046	.026	.018
649791CM	0.22uF	50	.077	.046	.026	.018
649862CM	0.33uF	25	.154	.091	.053	.036
649803CM	0.33uF	50	.077	.046	.026	.018
649871CM	0.47uF	16	.077	.046	.026	.018
649811CM	0.47uF	50	.077	.046	.026	.018
649820CM	0.68uF	50	.077	.046	.026	.018
649897CM	1uF	10	.077	.042	.026	.018
649889CM	1uF	16	.077	.046	.026	.018

### Y5V Series (+80%, -20%)

JAMECO ValuePro	0603 SMT	Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
543890CM	0.1uF	25	\$ .087	\$ .052	\$ .03	\$ .021
544112CM	1uF	10	.087	.051	.03	.021

\* Prepackaged: order in quantity increments shown

## 6, 8, and 10-Pin Bused Single-In-Line "SIP" Resistor Networks (±2%)



- Miniature, high density packaging
- Operating temperature range: -55°C to +125°C
- Temperature coefficient range: ±100ppm/°C: 50Ω – 1.0MΩ; ±250ppm/°C: <50Ω or >1.0M
- Rating ambient temperature: +70°C
- Wattage/element: 1/8 Watt
- Max. working voltage: 100V
- Prepackaged: order in increments of 10

To order, replace "xxx" in the Part No. with the value to the right (e.g. – 4608X-1-512CM for a 5.1kΩ 8-pin device).	10Ω — 100 22Ω — 220 27Ω — 270 33Ω — 330 39Ω — 390 47Ω — 470 51Ω — 510 56Ω — 560 68Ω — 680 82Ω — 820 100Ω — 101	120Ω — 121 150Ω — 151 180Ω — 181 220Ω — 221 270Ω — 271 330Ω — 331 390Ω — 391 470Ω — 471 510Ω — 511 560Ω — 561 820Ω — 821	1kΩ — 102 1.2kΩ — 122 1.5kΩ — 152 1.8kΩ — 182 2.0kΩ — 202 2.2kΩ — 222 2.7kΩ — 272 3.3kΩ — 332 3.9kΩ — 392 4.7kΩ — 472 5.1kΩ — 512	5.6kΩ — 562 6.8kΩ — 682 8.2kΩ — 822 10kΩ — 103 12kΩ — 123 15kΩ — 153 18kΩ — 183 20kΩ — 203 22kΩ — 223 27kΩ — 273 33kΩ — 333	39kΩ — 393 47kΩ — 473 56kΩ — 563 68kΩ — 683 82kΩ — 823 100kΩ — 104 120kΩ — 124 150kΩ — 154 180kΩ — 184 220kΩ — 224 270kΩ — 274	330kΩ — 334 390kΩ — 394 470kΩ — 474 560kΩ — 564 680kΩ — 684 820kΩ — 824 1MΩ — 105
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### Y5V Series (+80%, -20%)

0805 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
650599CM	0.01uF	50	\$ .077	\$ .046	\$ .026	\$ .018
650601CM	0.022uF	50	.077	.046	.026	.018
650610CM	0.047uF	50	.077	.046	.026	.018
650644CM	0.10uF	25	.077	.046	.026	.018
650628CM	0.10uF	50	.077	.046	.026	.018
650652CM	0.22uF	25	.116	.068	.039	.027
650636CM	0.22uF	50	.116	.068	.039	.027
650661CM	0.47uF	25	.154	.091	.053	.036
650687CM	1uF	16	.238	.21	.131	.091
650679CM	1uF	25	.231	.137	.079	.055
650695CM	2.2uF	16	.501	.296	.171	.118
650708CM	4.7uF	10	.65	.387	.223	.155

JAMECO ValuePro	1206 SMT	Pricing per each*				
Part No.	Capacitance	Volt.	10	100	500	1000
544737CM	1uF	50	\$ .304	\$ .182	\$ .106	\$ .074
544745CM	4.7uF	16	.70	.416	.243	.169
<b>Other Manufacturers — Great Deals</b>						
651541CM	0.10uF	50	\$ .231	\$ .137	\$ .079	\$ .055
651559CM	0.22uF	50	.424	.25	.144	.10
651567CM	0.47uF	50	.347	.205	.118	.082
651575CM	1uF	50	.27	.159	.092	.064
651583CM	2.2uF	25	.385	.228	.131	.091
651591CM	4.7uF	16	.62	.364	.21	.146
651604CM	10uF	10	.77	.455	.263	.182

1210 SMT			Pricing per each*			
Part No.	Capacitance	Volt.	10	100	500	1000
Other Manufacturers — Great Deals						
651815CM	10uF	16	\$2.08	\$1.23	\$ .71	\$.491
651823CM	22uF	10	2.09	1.05	1.04	.72

## 0805 Resistor Assortment (±5%)

144 Values, 50 pcs. each; 7,200 Pieces Total



- Size (mm): 2.0L x 1.25W x 0.5Thick
- Max. overload voltage: 200V
- 1/8 watts
- Operating temperature: -50°C to 120°C
- Case size (two cases): 10.5"L x 6.7"W x 1.7"T
- Weight: 1.9 lbs.

Includes: Case with labels

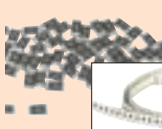
Part No.	Cross Ref. No.	1	10	25
172806CM	16-500	\$79.95	\$71.95	\$64.79

Resistance Value Chart:

1.2	10	75	430	2.0k	10k	51k	270k	2.2M
1.6	16	85	470	2.2k	11k	56k	300k	2.4M
2.2	18	91	510	2.4k	12k	62k	360k	2.7M
2.4	20	110	560	2.7k	13k	68k	390k	3.0M
2.7	22	120	620	3.0k	15k	75k	430k	3.3M
3.0	24	130	680	3.3k	16k	82k	470k	3.6M
3.3	27	150	750	3.6k	18k	91k	510k	3.9M
4.3	30	160	820	3.9k	20k	100k	560k	4.3M
4.7	33	180	910	4.3k	22k	110k	620k	4.7M
5.1	39	200	1.0k	4.7k	24k	120k	750k	5.1M
5.6	43	220	1.1k	5.6k	27k	150k	820k	5.6M
6.2	47	240	1.2k	6.2k	30k	160k	910k	6.8M
6.8	51	270	1.3k	6.8k	33k	180k	1.0M	7.5M
7.5	56	300	1.5k	7.5k	36k	200k	1.6M	8.2M
8.2	62	360	1.6k	8.2k	39k	220k	1.8M	9.1M
9.1	68	390	1.8k	9.1k	43k	240k	2.0M	10M

## 1206 Resistor Assortment (±1%)

56 Values, 200 pcs. each; 11,200 pcs. Total



- Max. working voltage: 200V
- Power: 1/8W
- Operating temperature: -55°C to +125°C
- Temp. coefficient: ±100 ppm/°C
- Resistor dimensions (mm): 3.10L x 1.5 W x 0.55H

Part No.	Cross Ref. No.	1	10	25
156881CM	SMR1206SB	\$99.99	\$89.99	\$79.99

10	200	3.92k	75k
12.1	243	4.99k	90.9k
15	301	6.19k	100k
20	392	7.5k	121k
24.3	499	9.09k	150k
30.1	619	10k	200k
39.2	750	12.1k	243k
49.9	909	15k	301k
61.9	1k	20k	392k
75	1.21k	24.3k	499k
90.9	1.5k	30.1k	619k
100	2k	39.2k	750k
121	2.43k	49.9k	909k
150	3.01k	61.9k	1M

## Don't Resist Surface Mounts!

There was a time when I thought working with a surface mount board was completely impossible. Tiny little devices, incompatible big & bulky tools, my "30+" year old eyesight and more always steered me away.

OK, the devices aren't any bigger and now I use a magnifying light like the ones on page 301, but I do find myself enjoying SMD work! New, affordable tools are available, like the tweezer-action soldering iron on page 303. Its tiny tips make soldering and de-soldering a snap! Plus I use the tip to pick up and place the devices so my "40+" fingers don't have to fumble with the devices as much.

**Practical Practices**  
Money Saving Tips for the Engineer



## 1/4-Watt Carbon Film Resistors (±5%)



## Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

Pricing Per Unit (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$ .010	\$ .009	\$ .008	\$ .007

## Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

Part No.	Description (Including bulk pack values)	1	10	25
10719CM	5 ea. 70 values (every other value from 10Ω - 5.6 MΩ) (350 pcs.)	\$9.95	\$8.95	\$7.95
103165CM	10 ea. 24 values marked (●) & 50 ea. 6 values marked (✕) (540 pcs.)	12.95	11.49	9.95
10663CM	100 ea. 27 values marked (▲) (2,700 pcs.)	24.95	22.49	20.49
10655CM	100 ea. 160 values (all resistor values in the chart below) (16,000 pcs.)	119.95	107.95	96.95
81832CM	1/4-watt resistor component cabinet kit - 30 values (540 pcs.), pg 96	27.95	24.95	22.49

\*▲ see above

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
690216CM	2.2	690427CM	15	690620CM	100	690822CM	680	691024CM	4.7k	691227CM	33k	691420CM	220k	691622CM	1.5M
690224CM	2.4	690435CM	16	690638CM	110	690831CM	750	691032CM	5.1k	691235CM	36k	691438CM	240k	691631CM	1.6M
690232CM	2.7	690443CM	18	690646CM	120	690849CM	820	691041CM	5.6k	691243CM	39k	691446CM	270k	691639CM	1.8M
690241CM	3.0	690451CM	20	690654CM	130	690857CM	910	691059CM	6.2k	691251CM	43k	691454CM	300k	691649CM	2.0M
690259CM	3.3	690460CM	22	690662CM	150	690865CM	1.0k	691067CM	6.8k	691260CM	47k	691462CM	330k	691657CM	2.2M
690267CM	3.6	690478CM	24	690671CM	160	690873CM	1.1k	691075CM	7.5k	691278CM	51k	691471CM	360k	691665CM	2.4M
690275CM	3.9	690486CM	27	690689CM	180	690881CM	1.2k	691083CM	8.2k	691286CM	56k	691489CM	390k	691673CM	2.7M
690283CM	4.3	690494CM	30	690697CM	200	690890CM	1.3k	691091CM	9.1k	691294CM	62k	691497CM	430k	691681CM	3.0M
690291CM	4.7	690507CM	33	690700CM	220	690902CM	1.5k	691104CM	10k	691307CM	68k	691500CM	470k	691690CM	3.3M
690304CM	5.1	690515CM	36	690718CM	240	690911CM	1.6k	691112CM	11k	691315CM	75k	691518CM	510k	691702CM	3.6M
690312CM	5.6	690523CM	39	690726CM	270	690929CM	1.8k	691121CM	12k	691323CM	82k	691526CM	560k	691711CM	3.9M
690321CM	6.2	690531CM	43	690734CM	300	690937CM	2.0k	691139CM	13k	691331CM	91k	691534CM	620k	691737CM	4.7M
690339CM	6.8	690540CM	47	690742CM	330	690945CM	2.2k	691147CM	15k	691340CM	100k	691542CM	680k	691745CM	5.1M
690347CM	7.5	690558CM	51	690751CM	360	690953CM	2.4k	691155CM	16k	691358CM	110k	691551CM	750k	691753CM	5.6M
690363CM	8.2	690566CM	56	690769CM	390	690961CM	2.7k	691163CM	18k	691366CM	120k	691569CM	820k	691761CM	6.2M
690371CM	9.1	690574CM	62	690777CM	430	690970CM	3.0k	691171CM	20k	691374CM	130k	691577CM	910k	691770CM	6.8M
690380CM	10	690582CM	68	690785CM	470	690988CM	3.3k	691180CM	22k	691382CM	150k	691585CM	1.0M	691788CM	7.5M
690398CM	11	690591CM	75	690793CM	510	690996CM	3.6k	691198CM	24k	691391CM	160k	691593CM	1.1M	691796CM	8.2M
690401CM	12	690603CM	82	690806CM	560	691008CM	3.9k	691201CM	27k	691403CM	180k	691606CM	1.2M	691809CM	9.1M
690419CM	13	690611CM	91	690814CM	620	691016CM	4.3k	691219CM	30k	691411CM	200k	691614CM	1.3M	691817CM	10M

## 1/2-Watt Carbon Film Resistors (±5%)



## Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.

Values may not be combined for quantity price breaks.

Pricing Per Unit (Please order in increments of 100)				
Specify Part No. & Resistor Value	100	500	1000	2000
(see Standard Resistor Values Chart below)	\$ .028	\$ .019	\$ .014	\$ .013

## Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Part No.	Cross Ref. No.	Values Included	Description (see chart on left)	Pricing	
				1	10
107852CM	ASST1230	✕ #	10 ea. of 24 values marked by ✕ and 50 ea. of 6 values marked by # (540 pcs.)	\$14.95	\$13.49
107844CM	ASST1227	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	34.95	31.49
107836CM	ASST1270	—	5 ea. of 70 values (every other value from 10Ω - 5.6 MΩ) (350 pcs.) (see chart below)	10.95	9.95
107879CM	CAB12R	—	1/2-watt resistor component cabinet kit - 30 values (540 pcs.), see page 96	29.95	26.95

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659577CM	1.0	659796CM	8.2	661221CM	68	661431CM	510	661642CM	3.6k	661853CM X	27k	662063CM	200k	662274CM	1.5M
659585CM	1.1	659809CM	9.1	661239CM	75	661440CM	560	661651CM	3.9k	661861CM	30k	662071CM	220k	662282CM	1.6M
659593CM	1.2	659817CM ✓X	10	661247CM	82	661458CM	620	661669CM	4.3k	661870CM ✓X	33k	662080CM	240k	662291CM	1.8M
659606CM	1.3	659825CM	11	661255CM	91	661466CM ✓X	680	661677CM ✓X	4.7k	661888CM	36k	662098CM	270k	662303CM	2.0M
659614CM	1.5	659833CM	12	661263CM ✓#	100	661474CM	750	661685CM ✓X	5.1k	661896CM	39k	662101CM	300k	662311CM	2.2M
659622CM	1.6	659841CM	13	661271CM	110	661482CM	820	661693CM ✓X	5.6k	661909CM	43k	662119CM	330k	662320CM	2.4M
659631CM	1.8	659850CM	15	661280CM	120	661491CM	910	661706CM	6.2k	661917CM ✓X	47k	662127CM	360k	662338CM	2.7M
659649CM	2.0	659868CM	16	661298CM	130	661503CM ✓X	1.0k	661714CM X	6.8k	661925CM	51k	662135CM	390k	662346CM	3.0M
659657CM	2.2	659876CM	18	661301CM ✓X	150	661511CM	1.1k	661722CM	7.5k	661933CM	56k	662143CM	430k	662354CM	3.3M
659665CM	2.4	659884CM	20	661319CM	160	661520CM	1.2k	661731CM	8.2k	661941CM	62k	662151CM ✓X	470k	662362CM	3.6M
659673CM	2.7	659892CM	22	661327CM	180	661538CM	1.3k	661749CM	9.1k	661950CM	68k	662160CM	510k	662371CM	3.9M
659681CM	3.0	659905CM	24	661335CM	200	661546CM ✓X	1.5k	661757CM ✓X	10k	661968CM	75k	662178CM	560k	662389CM	4.3M
659690CM	3.3	661124CM	27	661343CM ✓#	220	661554CM	1.6k	661765CM	11k	661976CM	82k	662186CM	620k	662397CM	4.7M
659702CM	3.6	661132CM	30	661351CM	240	661562CM	1.8k	661773CM	12k	661984CM	91k	662194CM	680k	662400CM	5.1M
659711CM	3.9	661141CM	33	661360CM ✓X	270	661571CM ✓X	2.0k	661781CM	13k	661992CM ✓X	100k	662207CM	750k	662418CM	5.6M
659729CM	4.3	661159CM	36	661378CM	300	661589CM ✓X	2.2k	661790CM ✓X	15k	662004CM	110k	662215CM	820k	662426CM	6.2M
659737CM	4.7	661167CM	39	661386CM ✓X	330	661597CM	2.4k	661802CM	16k	662012CM	120k	662223CM	910k	662434CM	6.8M
659745CM	5.1	661175CM	43	661394CM	360	661600CM ✓X	2.7k	661811CM	18k	662021CM	130k	662231CM ✓X	1.0M	662442CM	7.5M
659753CM	5.6	661183CM ✓X	47	661407CM X	390	661618CM	3.0k	661829CM	20k	662039CM	150k	662240CM	1.1M	662451CM	8.2M
659761CM	6.2	661191CM	51	661415CM	430	661626CM	3.2k	661837CM ✓X	22k	662047CM	160k	662258CM	1.2M	662469CM	9.1M
659770CM	6.8	661204CM	56	661423CM ✓X	470	661634CM ✓X	3.3k	661845CM	24k	662055CM	180k	662266CM	1.3M	662477CM ✓X	10M
659788CM	7.5	661212CM	62												
(✓), (X), (#) symbols indicate Resistor values included in Assortments above.															

(✓), (X), (#) symbols indicate Resistor values included in Assortments above.





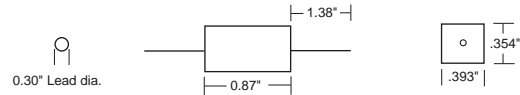
## 5-Watt Wirewound Resistors (5%)

### Single Value Resistor Pricing: 5-Watt Wirewound Resistors (±5%)

To order: Use part number adjacent to ohms in chart below.  
 Values may not be combined for quantity price breaks.

Pricing Per Resistor					
Specify Part No. & Resistor Value	1	10	100	500	1000
(see Standard Resistor Values Chart below)	\$.36	\$.30	\$.228	\$.199	\$.162

- Temp range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



## Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
659956CM	0.10	660092CM	0.68	660236CM	2.7	660375CM	10	660519CM	36	660658CM	150	660797CM	500	660931CM	1.8k
659964CM	0.15	660105CM	0.75	660244CM	3.0	660383CM	11	660527CM	39	660666CM	160	660800CM	510	660949CM	2.0k
659972CM	0.20	660113CM	0.82	660252CM	3.3	660391CM	12	660535CM	43	660674CM	180	660818CM	560	660957CM	2.2k
659981CM	0.22	660121CM	0.91	660261CM	3.9	660404CM	13	660543CM	47	660682CM	200	660826CM	620	660965CM	2.4k
659999CM	0.27	660130CM	1.0	660279CM	4.0	660412CM	15	660551CM	50	660691CM	220	660834CM	680	660973CM	2.7k
660009CM	0.30	660148CM	1.1	660287CM	4.7	660421CM	16	660560CM	56	660703CM	240	660842CM	750	660981CM	3.0k
660017CM	0.33	660156CM	1.2	660295CM	5.0	660439CM	18	660578CM	62	660711CM	250	660851CM	820	660990CM	3.3k
660025CM	0.39	660164CM	1.3	660308CM	5.1	660447CM	20	660586CM	68	660720CM	270	660869CM	910	661001CM	3.9k
660033CM	0.43	660172CM	1.5	660316CM	5.6	660455CM	22	660594CM	75	660738CM	300	660877CM	1.0k	661010CM	4.7k
660041CM	0.47	660181CM	1.6	660324CM	6.2	660463CM	24	660607CM	82	660746CM	330	660885CM	1.1k	661028CM	5.0k
660050CM	0.50	660199CM	1.8	660332CM	6.8	660471CM	25	660615CM	91	660754CM	360	660893CM	1.2k	661036CM	10k
660068CM	0.51	660201CM	2.0	660341CM	7.5	660480CM	27	660623CM	100	660762CM	390	660906CM	1.3k	661044CM	20k
660076CM	0.56	660210CM	2.2	660359CM	8.2	660498CM	30	660631CM	120	660771CM	430	660914CM	1.5k	661052CM	25k
660084CM	0.62	660228CM	2.4	660367CM	9.1	660501CM	33	660640CM	130	660789CM	470	660922CM	1.6k		

## 1/8-Watt Carbon Film Resistor (±5%) Assortments

• 1/8-W – \$12.95/k (bulk)

Part No.	Cross Ref. No.	Values included	Description (see chart below)	Pricing	
				1	10
108302CM	ASST1830	X	10 ea. of 24 values marked by X and 50 ea. of 6 values marked below by # (540 pcs.)	\$12.95	\$11.49
108290CM	ASST1827	✓	100 ea. of 27 values marked by ✓ (2,700 pcs.)	29.95	26.95
108329CM	CAB182R	—	1/8-watt resistor component cabinet kit – 30 values (540 pcs.), see page 96	24.95	22.49

### 1/8-Watt Resistor Assortments Value Chart (Ohms)

10 ✓	150 ✓	330 ✓	680 ✓	2.0k ✓	3.3k ✓	5.6k ✓	15k ✓	33k ✓	470k ✓
47 ✓	220 ✓	390 ✓	1.0k ✓	2.2k ✓	4.7k ✓	6.8k ✓	22k ✓	47k ✓	1.0M ✓
100 ✓	270 ✓	470 ✓	1.5k ✓	2.7k ✓	5.1k ✓	10k ✓	27k ✓	100k ✓	10M ✓

(✓), (X), (#) symbols indicate Resistor values included in Assortments above.

## 1/4-Watt & 1/2-Watt Resistor Lead Forming Tool

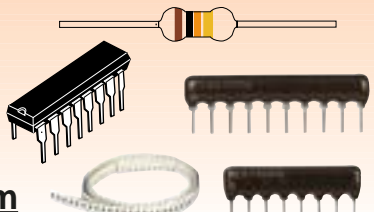
- Watt size indicates appropriate package size
- Bends lead length in .05" increments
- Excellent for capacitors also
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"
- Size: 5.4"L x 1.5"W



Part No.	Description	1	10	50
106884CM	1/4W & 1/2W	\$2.79	\$2.65	\$2.52

Many more resistor products are available on our website

[www.Jameco.com](http://www.Jameco.com)

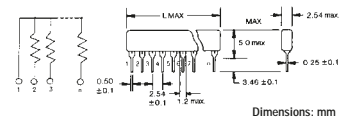


## Single-In-Line "SIP" Resistor Networks (±2%)

8 and 10-Pin Bused (125mW/Resistor) ±2%

Features (8BRN/10BRN):

- 8-pin package (7 resistors) = 8BRN
- 10-pin package (9 resistors) = 10BRN
- Rated power per resistor at 70°C: 125mW/ resistor
- Operating temperature range: -55°C to +125°C
- Resistance temperature coefficient: 200ppm/°C
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- Low profile 5mm (.200" body ht.)
- Low profile is compatible with DIPs
- Cermet thick film construction



Pricing per each			
1	10	100	1000
\$.25	\$.19	\$.15	\$.12

Pricing for P/N 97826CM			
1	10	100	1000
\$.24	\$.18	\$.14	\$.11

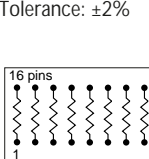
Part No.	Pins	Ohms
97826CM	8	10k
97851CM	10	330
97869CM	10	470
97877CM	10	1.0k
97893CM	10	2.2k
24660CM	10	4.7k
24643CM	10	10k
98087CM	10	47k
98095CM	10	100k

## Dual-In-Line "DIP" Resistor Networks (±2%)

16-Pin Isolated (140mW/Resistor) ±2%

Features (16IRN):

- Maximum operating voltage: 100V
- Temperature coefficient: ±100ppm/°C
- Operating temp.: -55°C to +125°C
- Insulation resistance: 10,000MΩ min.
- Lead solderability/solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation



Pricing per each			
1	10	100	1000
\$.39	\$.35	\$.31	\$.29

Part No.	Ohms
164005CM	33
108556CM	100
108564CM	220
108572CM	330
108581CM	470
108599CM	1.0k
108610CM	4.7k
108628CM	10k
108644CM	100k

## SIP and DIP Resistor Network Cross Reference Chart

Jameco	CTS	A - B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN...	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN...	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX... X2PD	9S10... GL002
16IRN...	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J

OHMITE

## 10 Series Current Sense Axial-Lead Wire Element Resistor

- Ideal for current sensing applications
- 2W, 2 terminal, 1% tolerance
- Terminals: solder plated copper or copper clad steel
- Encapsulation: silicon molding compound
- Derating: linearly from 100%@25°C to 0%@275°C
- Power rating: based on 25°C free air rating
- Overload: 5 x rated wattage for 5 seconds
- Dielectric withstanding voltage: 1000Vrms
- Insulation resistance: 1000MΩ
- Thermal EMF: ±2uV/°C
- Temp. range: -55°C to 275°C
- 2 piece minimum order

Part No.	Product No.	Ohms	2	10	100
619516CM	12FR025	0.025Ω	\$1.49	\$1.33	\$1.28

## 20 Series Vitreous Enamel Conformal Axial-Lead Wire Wound Resistor

- Ideal for computer, computer and industrial applications
- Vitreous enamel coatings withstands high humidity and temperature cycling
- Coating: flame resistant lead free enamel coating
- Power: 3W
- Terminal: solder coated
- Derating: linearly from 100%@25°C to 0%@350°C
- Power rating: based on 25°C free air rating
- Overload 5 x rated wattage for 5 seconds
- Temperature coefficient: ±30ppm/°C
- 3 piece minimum order

Part No.	Product No.	Ohms	3	10	100
619541CM	23J56R	56Ω	\$ .99	\$ .87	\$ .76

## 40 Series OHMICONE®, Silicone-Ceramic Conformal Axial-Lead Wire Wound Resistors

- All welded construction
- Characterized by their low temperature coefficient & resistance shock
- Applications: commercial, industrial, & communication
- Stability under high-temperature conditions
- Coating: conformal silicone ceramic
- Core: ceramic
- Terminals: solder coated, copper clad
- Derating: linearly from 100%@25°C to 0%@275°C
- Power rating: based on 25°C free air rating
- Overload: 5 x rated for under 5W; 10 x rated for 5W and over (for 5 seconds)
- Temperature coefficient: under 1Ω = ±90ppm/°C; over 10Ω = ±20ppm/°C
- 3 piece minimum order

Part No.	Product No.	Ohms	3	10	100
619559CM	40J50R	50Ω/10W	\$1.29	\$1.10	\$1.09
619567CM	43JR10	0.1Ω/3W	1.59	1.49	1.39

See Complete Ohmite Offering at [www.Jameco.com/Prod/Ohmite](http://www.Jameco.com/Prod/Ohmite)

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## Resistors

### 200 Series Brown Devil® Vitreous Enamel Power Resistors

- Small, exceptionally durable
- High-power ratings
- Coating: lead free vitreous enamel
- Terminal: tinned axial lead
- Derating: linearly from 100%@25°C to 0%@350°C
- Tolerance: 5%
- Power: 8W
- Power rating: based on 25°C free air rating
- Overload: 10 x rated wattage for 5 seconds
- Temperature coefficient: under 5Ω = ±400ppm/°C; over 5Ω = ±260ppm/°C

Part No.	Product No.	Ohms	1	10	100
619604CM	B8J1K0	1kΩ	\$2.49	\$2.29	\$1.96
619612CM	B8J1R5	1.5Ω	3.59	3.21	2.67

### 250 Series "Thin" Stockholm® Vitreous Enamel Power Resistors

- Small size-to-power ratio
- Stackable
- Integral mounting bracket conducts heat to mounting surface
- Coating: lead free vitreous enamel
- Core: ceramic
- Terminals: tinned lug with hole
- Derating: linearly from 100%@25°C to 0%@350°C
- Power rating: based on mounting a single resistor on metal. Reduce rating by 15% when mounting on non-metallic surface
- Overload: 5 x rated wattage for 5 seconds
- Temperature coefficient: ±260ppm/°C
- Dielectric withstanding voltage: 1000VAC

Part No.	Product No.	Ohms	1	10	100
619639CM	F40J25R	25Ω/40W	\$9.55	\$8.99	\$8.77
619647CM	F55J10K	10kΩ/55W	13.95	11.79	9.07

### Thru-Bolts & Mounting Brackets for 210 & 270 Series

- Steel plated brackets allow for secure mounting of 210 and 270 type resistors
- Thru-bolts, centering washers & insulating washers included
- For 175W single resistor

Part No.	Product No.	Description	1	10	100
619583CM	6110-8/	Slotted	\$10.09	\$8.28	\$6.90

### Mounting Brackets

- Fits inside cores of 200, 210, & 270 type resistors
- Steel plated
- For 8 & 12 Watt

Part No.	Product No.	Description	1	10	100
619575CM	5-100	Slotted	\$29.99	\$28.95	\$27.49

### 270 Series Vitreous Enamel Power Resistors

- Terminals suitable for soldering or bolt connection
- High-wattage applications
- Core: tubular ceramic
- Coating: lead free vitreous enamel
- Terminals: solder coated radial lug
- Derating: linearly from 100%@25°C to 0%@350°C
- Tolerance: 5%
- Power: 25W
- Power rating: based on 25°C free air rating
- Overload: 10 x rated wattage for 5 seconds
- Temperature coefficient: ±400ppm/°C
- Dielectric withstanding voltage: 1000VAC

Part No.	Product No.	Ohms	1	10	100
619655CM	L25J2R0	2Ω	\$5.49	\$3.88	\$3.15

### OX Series Ceramic Composition Resistors

- High-peak power
- Replaces 1 & 2 watt carbon composition resistors
- Meets high energy density demands
- Tolerance: ±10%
- Terminals: solder coated axial leads
- Coating: UL94V-0 approved silicone
- Derating: linearly from 100%@70°C to 0%@200°C
- Power rating: based on 70°C free air rating
- Temperature coefficient: -1300 to 300ppm/°C
- Working voltage: 300V
- Dielectric strength: 500V
- Max. overload voltage: 600V
- 4 piece minimum order

Part No.	Product No.	Ohms	4	10	100
619663CM	OX150K	15Ω	\$ .95	\$ .85	\$ .75
619680CM	OX390K	39Ω	.95	.85	.75

## Are You Really Finished?

I've discussed how important it is to keep a well-stocked supply of components, and recently a customer "reminded" me that I wasn't really complete.

When prototyping a device, don't forget to obtain the hardware staples you'll likely need. The pots to the right, for instance, will probably need knobs. These components are usually an afterthought, though as this above customer noted, they're often neglected until it is too late.

So as you're thinking through your project and gathering parts, don't forget to turn to pages 208-211. You'll find a broad selection of knobs, spacers, standoffs, handles, rubber feet and even springs. Stock up now and be ready to present your prototypes in the best light possible!

**Practical Practices**  
Money Saving Tips for the Engineer

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## RV4N Style 2-Watt Linear Taper (±10%)

- Shaft diameter: 0.25" • Shaft length: 0.875"
- 2W @ 70°C ambient
- Temp. range: -55°C to +120°C
- Non-rotational key
- Mounting hole: 0.375"
- Maximum panel thickness: 0.25"

Includes: Mounting hardware



Qty.	1	10	25	50
Price	\$7.39	\$6.54	\$5.45	\$5.20

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Military No.	Ohms
241568CM	53C3-100	RV4NAYSD101A	100
241576CM	53C3-150	RV4NAYSD151A	150
241584CM	53C3-250	RV4NAYSD251A	250
241592CM	53C3-350	RV4NAYSD351A	350
183610CM	53C3-500	RV4NAYSD501A	500
13936CM	53C3-1k	RV4NAYSD102A	1k
241613CM	53C3-2k	RV4NAYSD202A	2k
241621CM	53C3-2.5k	RV4NAYSD252A	2.5k
241630CM	53C3-3.5k	RV4NAYSD352A	3.5k
13995CM	53C3-5k	RV4NAYSD502A	5k
13952CM	53C3-10k	RV4NAYSD103A	10k
241648CM	53C3-15k	RV4NAYSD153A	15k
241656CM	53C3-20k	RV4NAYSD203A	20k
241664CM	53C3-25k	RV4NAYSD253A	25k
95417CM	53C3-50k	RV4NAYSD503A	50k
13979CM	53C3-100k	RV4NAYSD104A	100k
241681CM	53C3-250k	RV4NAYSD254A	250k
241699CM	53C3-350k	RV4NAYSD354A	350k
241728CM	53C3-1Meg	RV4NAYSD105A	1M



## 1/2-Watt 24mm Linear Taper (±20%)



- Maximum voltage: 500V
- Rotational angle: 300° (±5°)
- Withstanding voltage for 1 minute: 500VAC
- Solder lugs

To order, replace "xxx" in the Part No. with the value to the right (e.g. – order RV24A-10-20K-B503CM for a 50kΩ Alpha with 0.531"L Shaft).

500Ω — 501	50kΩ — 503
1kΩ — 102	100kΩ — 104
2kΩ — 202	250kΩ — 254
2.5kΩ — 252	500kΩ — 504
5kΩ — 502	1MΩ — 105
10kΩ — 103	2MΩ — 205
25kΩ — 253	5MΩ — 505

Part Number	RV24A-10-15R1-BxxxCM	RV24A-10-20K-BxxxCM	RV24A-10-40R1-BxxxCM
Shaft Length	0.335"L	0.531"L	1.32"L
1 pc.	\$1.19	\$1.19	\$1.15
10 pcs.	\$0.91	\$0.91	\$0.95
100 pcs.	\$0.83	\$0.83	\$0.86
500 pcs.	\$0.76	\$0.76	\$0.79



## 1/2-Watt Linear Taper (±10%)

- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.50"
- Maximum panel thickness: 0.1875"

Includes: Mounting hardware

Qty.	1	10	100	500
Price	\$ .99	\$ .79	\$ .65	\$ .55

Part No	Cross Ref. No.	Ohms	Part No	Cross Ref. No.	Ohms
29049CM	P1K	1k	29102CM	P100K	100k
29196CM	P5K	5k	29065CM	P1MEG	1M
29081CM	P10K	10k			



## 1/4-Watt 24mm Audio Taper with SPST Switch (±20%)

- Shaft length: 0.590"
- Voltage rating: 250V
- Shaft diameter: 0.250"
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263601CM	RV24A01-10-15R1-A1K	1k
263610CM	RV24A01-10-15R1-A5K	5k
263636CM	RV24A01-10-15R1-A10K	10k
263645CM	RV24A01-10-15R1-A50K	50k
263652CM	RV24A01-10-15R1-A100K	100k
263661CM	RV24A01-10-15R1-A500K	500k



## 1/2-Watt 24mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.335"
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Maximum voltage: 500V
- Switch rating: 125VAC, 1A
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$1.59	\$1.36	\$1.24	\$1.13

Part No.	Product No.	Ohms
263759CM	RV24A01-10-15R1-B500	500
263768CM	RV24A01-10-15R1-B1K	1k
263775CM	RV24A01-10-15R1-B2.5K	2.5k
263783CM	RV24A01-10-15R1-B5K	5k
263791CM	RV24A01-10-15R1-B10K	10k
263804CM	RV24A01-10-15R1-B25K	25k
263813CM	RV24A01-10-15R1-B50K	50k
263821CM	RV24A01-10-15R1-B100K	100k
263839CM	RV24A01-10-15R1-B250K	250k
263848CM	RV24A01F-10-15R1-B55	500k
263855CM	RV24A01-10-15R1-B1M	1M



## 1/4-Watt 24mm Audio Taper (±20%)

- Shaft length: 0.335"
- Maximum voltage: 250V
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Insulation resistance: >100MΩ @ 500VDC
- Rotational angle: 300° (±5°)



Qty.	1	10	100	500
Price	\$1.19	\$ .91	\$ .83	\$ .76

Part No.	Product No.	Ohms
255397CM	RV24A-10-15R1-A1K	1k
255417CM	RV24A-10-15R1-A5K	5k
255425CM	RV24A-10-15R1-A10K	10k
255433CM	RV24A-10-15R1-A50K	50k
255441CM	RV24A-10-15R1-A100K	100k
255450CM	RV24A-10-15R1-A500K	500k
255469CM	RV24A-10-15R1-A1M	1M

Can't find it in the catalog? Log on to [www.jameco.com](http://www.jameco.com) for over 200,000 cross referenced products.



## 1/5-Watt 16mm Linear Taper, Single Detent

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Center detent
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



Qty.	1	10	100	500
Price	\$1.35	\$1.13	\$1.04	\$ .94

Part No.	Product No.	Ohms
286352CM	RV16A-10-15R1-B1K-OC	1k
286361CM	RV16A-10-15R1-B2K-OC	2k
286380CM	RV16A-10-15R1-B5K-OC	5k
286388CM	RV16A-10-15R1-B10K-OC	10k
286395CM	RV16A-10-15R1-B25K-OC	25k
286408CM	RV16A-10-15R1-B50K-OC	50k
286416CM	RV16A-10-15R1-B100K-OC	100k
286424CM	RV16A-10-15R1-B250K-OC	250k
286432CM	RV16A-10-15R1-B500K-OC	500k
286441CM	RV16A-10-15R1-B1M-OC	1M

For Knobs see page 208



## Pocket Trimmer Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



Part No.	Description	1	10	100
153314CM	Trimmer tool	\$1.35	\$1.22	\$1.09





## 1/5-Watt 16mm Linear Taper, 11 Detents

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotational angle: 300° (±5°)
- Insulation resistance: >100MΩ @ 500VDC
- 11-detent position
- Withstanding voltage: 500VAC, 1 minute



286459CM

Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

Blue Part No. = Limited Quantity Available

Part No.	Product No.	Ohms
286459CM	RV16A-10-15R1-B1K-OD	1k
286467CM	RV16A-10-15R1-B2K-OD	2k
286475CM	RV16A-10-15R1-B5K-OD	5k
286483CM	RV16A-10-15R1-B10K-OD	10k
286491CM	RV16A-10-15R1-B25K-OD	25k
286504CM	RV16A-10-15R1-B50K-OD	50k
286512CM	RV16A-10-15R1-B100K-OD	100k
286521CM	RV16A-10-15R1-B250K-OD	250k
286539CM	RV16A-10-15R1-B500K-OD	500k
286547CM	RV16A-10-15R1-B1M-OD	1M



## 1/5-Watt 16mm Linear Taper w/ DPDT Switch, Solder Lugs

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Terminal type: solder lugs
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



286660CM

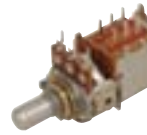
Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286660CM	RV16B-10-15R1-B1K	1k
286678CM	RV16B-10-15R1-B5K	5k
286694CM	RV16B-10-15R1-B50K	50k
286707CM	RV16B-10-15R1-B100K	100k



## 1/5-Watt 16mm Linear Taper w/ DPDT Switch, PC Terminals

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Terminal type: PC terminals (horizontal)
- Switch rating: 0.3A; 30VDC
- Rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Dielectric strength: 500VAC for 1 minute



286740CM

Qty.	1	10	100	500
Price	\$3.55	\$2.96	\$2.70	\$2.45

Part No.	Product No.	Ohms
286731CM	RV16B-20-15R1-B10K	10k
286740CM	RV16B-20-15R1-B50K	50k
286758CM	RV16B-20-15R1-B100K	100k



## 1/5-Watt 16mm Linear Taper

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotation angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute



286256CM

Qty.	1	10	100	500
Price	\$1.15	\$1.00	\$0.87	\$0.80

Part No.	Product No.	Ohms
286248CM	RV16A-10-15R1-B1K	1k
286256CM	RV16A-10-15R1-B2K	2k
286264CM	RV16A-10-15R1-B5K	5k
286272CM	RV16A-10-15R1-B10K	10k
286282CM	RV16A-10-15R1-BF4	25k
286300CM	RV16AF-10-15R1-B54	50k
286302CM	RV16A-10-15R1-B15	100k
286310CM	RV16A-10-15R1-B250K	250k
286329CM	RV16A-10-15R1-B55	500k
286336CM	RV16A-10-15R1-B1M	1M
286344CM	RV16A-10-15R1-B1.2M	1.2M



## 1/5-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft length: 0.374"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Terminal type: PC terminal (vertical; back)
- Total rotation angle: 270° (±5°)
- Rotation life: 100,000 cycles
- Switch life: 10,000 times
- Insulation resistance: >100MΩ @ 500VDC
- Switch contact resistance: <100mΩ
- Switch rating: 250VAC 10A



286767CM

Qty.	1	10	100	500
Price	\$2.25	\$1.90	\$1.73	\$1.57

Part No.	Product No.	Ohms
286767CM	RV16C-40-16F1-B5K	5k
286775CM	RV16C-40-16F1-B10K	10k
286782CM	RV16C-40-16F1-B50K	50k
286791CM	RV16C-40-16F1-B500K	500k



## 1/8-Watt 16mm Linear Taper

- Shaft length: 0.531"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotational angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Tolerance: <1MΩ (±20%); ≥1MΩ (±30%)
- Dielectric strength: 500VAC for 1 minute



286062CM

Qty.	1	10	100	500
Price	\$1.19	\$1.00	\$0.83	\$0.70

Part No.	Product No.	Ohms
286062CM	RV16A-10-20R1-B1K	1k
286184CM	RV16A-10-20R1-B2K	2k
286192CM	RV16A-10-20R1-B5K	5k
286205CM	RV16A-10-20R1-B10K	10k
286213CM	RV16A-10-20R1-B50K	50k
286854CM	RV16A-10-20R1-B100K	100k
286222CM	RV16A-10-20R1-B500K	500k
286231CM	RV16A-10-20R1-B1M	1M



## 1/8-Watt 16mm Linear Taper with SPST Switch (±20%)

- Shaft Length: 0.335"
- Shaft diameter: 0.250"
- Terminal type: solder lugs double row
- Rated voltage: 200V
- Total rotation angle: 300° (±5°)
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- Switch contact resistance: 20mΩ
- Switch rating: 12VDC/1A



286598CM

Qty.	1	10	100	500
Price	\$1.95	\$1.62	\$1.47	\$1.34

Part No.	Product No.	Ohms
286598CM	RV16A03-10-15R1-B1K	1k
286601CM	RV16A03-10-15R1-B5K	5k
286620CM	RV16A03-10-15R1-B10K	10k
286627CM	RV16A03-10-15R1-B50K	50k
286635CM	RV16A03-10-15R1-B100K	100k
286644CM	RV16A03-10-15R1-B500K	500k
286651CM	RV16A03-10-15R1-B1M	1M



## 1/10-Watt 16mm Audio Taper (±20%)

- Shaft length: 0.335"
- Rated voltage: 200V
- Shaft diameter: 0.250"
- Rotational angle: 300° (±5°)
- Rotational life: 15,000 cycles
- Rotational noise: 47mV
- Insulation resistance: >100MΩ @ 500VDC
- Withstanding voltage: 500VAC for 1 minute
- 11-detent positions



286555CM

Qty.	1	10	100	500
Price	\$1.65	\$1.38	\$1.25	\$1.13

Part No.	Product No.	Ohms
286555CM	RV16A-10-15R1-A10K-OD	10k
286563CM	RV16A-10-15R1-A50K-OD	50k
286571CM	RV16A-10-15R1-A100K-OD	100k
286580CM	RV16A-10-15R1-A1M-OD	1M

www.Jameco.com



Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.

**JAMECO ValuePro**


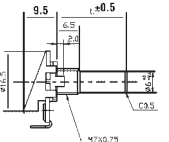
## 1/5-Watt 16mm Linear Taper (±20%)

- Insulation resistance: 100MΩ @ 500VDC
- Number of detents: 10
- Maximum panel thickness: 0.15"
- Shaft length: 0.605"
- Maximum operating voltage: 150VAC
- Shaft diameter: 0.235"
- Rotational life: 15,000 cycles
- Mounting hole: 0.27"

**Includes:** Mounting hardware

**Part No. Cross Ref. No. Ohms 1 10 100 500**

163563CM	PMD401	10k	\$1.65	\$1.49	\$1.35	\$1.09
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**JAMECO ValuePro**

## 2-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Mounting hole: 0.375"
- Non-rotational key
- Length: 0.825"
- Base length: 0.25"

**Includes:** Mounting hardware

**Part No. Cross Ref. No. Ohms 1 10 100 500**

123959CM	PT1K	1k	\$3.29	\$2.99	\$2.65	\$2.39
123967CM	PT5K	5k	3.29	2.99	2.65	2.39



**JAMECO ValuePro**


## 5-Watt Linear Taper Wire Wound (±20%)

- Temp. range: -10°C to 70°C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140522CM (0.25")
- Non-rotational key
- Mounting hole: 0.32"
- Maximum panel thickness: 0.1"

**Includes:** Mounting hardware

**Part No. Cross Ref. No. Ohms 1 10 50 100**

140514CM	PW5B100	100	\$2.79	\$2.35	\$2.25	\$2.10
140522CM	PW5B500	500	2.79	2.35	2.25	2.10



**BOURNS**

## 2-Watt Linear Taper Wire Wound (10-turn)

- Resistance tolerance: ±10%
- 10-turn; wirewound
- Load life: 1000 hours, 2W
- Insulation resistance: (500VDC) 1000MΩ minimum
- Absolute minimum resistance: 1Ω or 0.1% maximum

**Part No. Product No. Ohms 1 10 50**

183548CM	3540S-1-502	5k	\$12.79	\$12.35	\$12.26
183521CM	3540S-1-103	10k	12.99	12.79	12.59




**1/2-Watt, 3/8" Square Trimming Potentiometer (±10%)**

- Top adjustment
- Multi-turn
- Insulation resistance: (500VDC) 1000MΩ min.

**Lower\$\$\$**

**Part No. Product No. Ohms 1 10 50**

191417CM	3299Y-501	500	\$1.89	\$1.72	\$1.43
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**JAMECO ValuePro**

## 1/4-Watt Miniature Linear (±20%)

### X201 (19/32") Vertical Mount

**A Jameco EXCLUSIVE**

**94692CM**

- 15mm thick
- Power rating: below 5kΩ – 1/4 watt @ 40°C, 5kΩ & above – 1/4 watt @ 55°C
- Total rotation: 260° ±5°
- Voltage rating: 350VDC

**Cross Reference Chart**


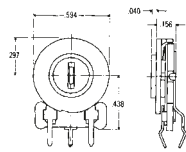
Equivalent to:
CTS X201R
Bourns 3355X
PIHER PT15

**Part No. Cross Ref. No. Ohms 1 10 100 500**

94692CM	X201R1K	1k				
35502CM	X201R252B	2.5k				
94705CM	X201R5K	5k				
94713CM	X201R10K	10k				

**Part No. Cross Ref. No. Ohms 1 10 100 500**

172136CM	X201R25K	25k				
94721CM	X201R50K	50k				
94730CM	X201R100K	100k				

## 1/2-Watt Trimming Potentiometers (±10%)

### 3362P Series

- Linear taper
- Insulation resistance: 500VDC 1,000MΩ minimum
- Absolute minimum resistance: 1% or 2Ω maximum
- Contact resistance variation: 1% or 3Ω maximum
- Rotational life: 200 cycles
- Terminals: solderable pins
- Top adjustment: 240° nominal
- Wiper positioning: 50% nominal

**191644CM**

**Cross Reference Chart**


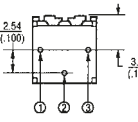
Equivalent to:
Bourns 3362P
Copal CT-6P
Murata PVC6
Vishay 76

**Part No. Cross Ref. No. Ohms 1 10 100 500**

191644CM	3362P-200	20				
189341CM	3362P-500	50				
182810CM	3362P-501	500				
182828CM	3362P-502	5k				

**Part No. Cross Ref. No. Ohms 1 10 100 500**

182836CM	3362P-103	10k				
182844CM	3362P-204	200k				
182852CM	3362P-105	1M				

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### 3329P Series

**Cross Ref. Chart**

Equivalent to:
Beckman 82M
Bourns 3329P
Mecopcal 8050
MEC 471
Murata 3321P
Spectrol 62-3
VRN 171
Weston 567

**95484CM**

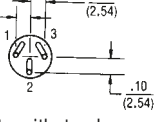
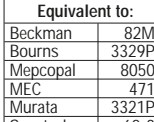
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Top adjustment
- Terminals: solderable pins

**Part No. Cross Ref. No. Ohms 1 10 100 500**

95441CM	3329P-102	1k				
95450CM	3329P-502	5k				

**Part No. Cross Ref. No. Ohms 1 10 100 500**

96719CM	3329P-103	10k				
95484CM	3329P-104	100k				

## 1/2-Watt, 3/8" Square, Single-Turn Cermet (±10%)

**42964CM**

- Top adjustment
- 1/2 watt linear taper @ 70°C
- PC pins: 0.100" grid (2.54mm)
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants
- Pin spacing: 0.1" (↑ 43060CM & 105216CM: 0.2")

**Cross Ref. Chart**

Equivalent to:
Allen Bradley E2B
Beckman 72PR
Bourns 3386P
Mecopcal 8038
Murata 3104P
Spectrol 63P
VRN 780-12P
Weston 840P

**Qty. 1 10 100 500**


**Price \$0.85 \$0.79 \$0.69 \$0.49**

**Part No. Cross Ref. No. Ohms 1 10 100 500**

43123CM	63P500	500				
42964CM	63P1K	1k				
43043CM	63P2K	2k				
43078CM	63P5K	5k				
43001CM	63P10K	10k				
43051CM	63P20K	20k				

**Part No. Cross Ref. No. Ohms 1 10 100 500**

43107CM	63P50K	50k				
43027CM	63P100K	100k				
43060CM	63P300K	300k				
63212CM	63P500K	500k				
42981CM	63P1MEG	1M				
105216CM	63P2MEG	2M				



## 3/4-Watt, 3/4" Rectangular 15-Turn Linear Cermet (±10%)

**41911CM**

- PC pins: 0.100" grid (2.54mm)
- Side adjustment
- Temperature range: -55°C to +125°C
- Sealed to guard against contaminants

**Cross Ref. Chart**

Equivalent to:
Allen Bradley 94P
Beckman 89PR
Bourns 3006P
Litton 6034Y
Mecopcal 8034
Murata 2101P
Spectrol 43P
VRN 961-20
Weston 830P

**Qty. 1 10 100 500**

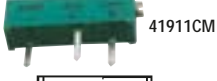
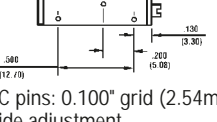
**Price \$1.05 \$0.99 \$0.89 \$0.75**

**Part No. Cross Ref. No. Ohms 1 10 100 500**

181972CM	43P201	200				
41937CM	43P500	500				
41785CM	43P1K	1k				
41865CM	43P2K	2k				
41890CM	43P5K	5k				
41822CM	43P10K	10k				

**Part No. Cross Ref. No. Ohms 1 10 100 500**

41873CM	43P20K	20k				
41911CM	43P50K	50k				
41849CM	43P100K	100k				
63001CM	43P200K	200k				
41953CM	43P500K	500k				
41806CM	43P1MEG	1M				

**JAMECO ValuePro**

## 1/2-Watt, 1/4" Round, Cermet Potentiometers (±10%)

### Bourns 3329P Series Value Equivalents

- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C
- TO-5 grid
- Top adjustment
- Terminals: solderable pins

**Part No. Cross Ref. No. Ohms 1 10 50 100**


**Price \$1.69 \$1.53 \$1.29 \$1.21**

**Part No. Cross Ref. No. Ohms 1 10 50 100**

254457CM	3329P-500	50				
254465CM	3329P-101	100				
254473CM	3329P-201	200				
254481CM	3329P-501	500				
254490CM	3329P-102	1k				
254502CM	3329P-202	2k				
254511CM	3329P-502	5k				
254529CM	3329P-103	10k				

**Part No. Cross Ref. No. Ohms 1 10 50 100**

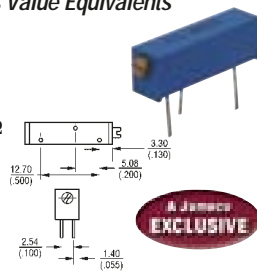
254537CM	3329P-203	20k				
254545CM	3329P-253	25k				
254553CM	3329P-503	50k				
254561CM	3329P-104	100k				
254570CM	3329P-204	200k				
254588CM	3329P-504	500k				
254596CM	3329P-105	1M				



## 3/4-Watt, 3/4" Rectangular, 15-Turn Cermet Potentiometer Side Adjustment ( $\pm 10\%$ )

### Bourns 3006P Series Value Equivalents

- Low PC board profile
- Temperature range:  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}$
- Absolute minimum resistance:  $1\Omega$  or  $2\Omega$
- Contact resistance variation:  $1\%$  or  $1\Omega$  maximum
- Power rating:  $0.75\text{W}$  @  $70^{\circ}\text{C}$  ( $400\text{V}$  maximum)



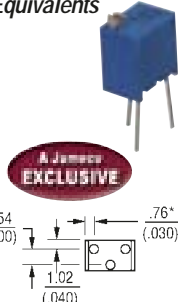
Qty.	1	10	50	100
Price	\$1.25	\$1.15	\$ .99	\$ .89

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
241234CM	3006P-101	100	241314CM	3006P-253	25k
241242CM	3006P-201	200	241322CM	3006P-503	50k
241251CM	3006P-501	500	241331CM	3006P-104	100k
241269CM	3006P-102	1k	241349CM	3006P-204	200k
241277CM	3006P-202	2k	241357CM	3006P-254	250k
241285CM	3006P-502	5k	241365CM	3006P-504	500k
241293CM	3006P-103	10k	241373CM	3006P-105	1M
241306CM	3006P-203	20k			

## 1/4-Watt, 1/4" Square Trimming Potentiometers, Top Adjustment ( $\pm 10\%$ )

### Bourns 3266W Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- 12 turns nominal
- Insulation resistance: ( $500\text{VDC}$ )  $1,000\text{M}\Omega$  minimum
- Contact resistance variation:  $3\%$  or  $3\Omega$  maximum (whichever is greater)
- Absolute min. resistance:  $1\Omega$  or  $2\Omega$  maximum (whichever is greater)
- Power rating:  $0.25\text{W}$  @  $70^{\circ}\text{C}$  ( $300\text{V}$  maximum)



Qty.	1	10	50	100
Price	\$2.29	\$1.99	\$1.93	\$1.83

Part No.	Cross Ref No.	Ohms	Part No.	Cross Ref No.	Ohms
254609CM	3266W-500	50	254684CM	3266W-203	20k
254617CM	3266W-101	100	254692CM	3266W-253	25k
254625CM	3266W-201	200	254705CM	3266W-503	50k
254633CM	3266W-501	500	254713CM	3266W-104	100k
254641CM	3266W-102	1k	254721CM	3266W-204	200k
254650CM	3266W-202	2k	254730CM	3266W-504	500k
254668CM	3266W-502	5k	254748CM	3266W-105	1M
254676CM	3266W-103	10k			

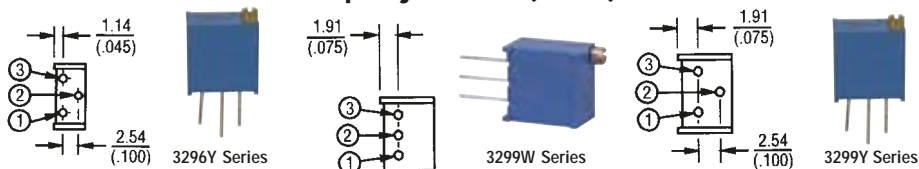
## Pocket Trimmer Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade
- Size: 5.2"L



Part No.	Description	1	10	100
15314CM	Trimmer tool	\$1.35	\$1.22	\$1.09

## 1/2-Watt, 3/8" Square, Multi-Turn Trimming Potentiometers, Top Adjustment ( $\pm 10\%$ )



### 3296Y/3299Y – Y Layout Solder Pins and 3299W – In-Line Solder Pins

- Resistance tolerance:  $\pm 10\%$
- 25 turns nominal
- Insulation resistance: ( $500\text{VDC}$ )  $1000\text{M}\Omega$  min.
- Contact resistance variation:  $1\%$  or  $3\Omega$  max.
- Absolute minimum resistance:  $1\Omega$  or  $2\Omega$  max.
- Power rating:  $0.5\text{W}$  @  $70^{\circ}\text{C}$  ( $300\text{V}$  max.)

### Attention Budget-Minded Buyers!

Jameco now offers high-quality Bourns® equivalents below, and they're priced to save you money. You'll get consistent form, fit and function, without paying the added surcharge for brand name components.

Series	3296Y	3299W	3299Y
Part Number	3296Y-xxxCM	3299W-xxxCM	3299Y-xxxCM
1 pc.	\$1.69	\$1.99	\$1.99
10 pcs.	\$1.56	\$1.82	\$1.82
100 pcs.	\$1.42	\$1.53	\$1.53
500 pcs.	\$1.28	\$1.35	\$1.35

To order, replace "xxx" in the Part No. with the value to the right (e.g. – order 3296Y-503CM for a  $50\text{k}\Omega$  ValuePro Series 3296Y).

100 $\Omega$ — 100	10k $\Omega$ — 103
200 $\Omega$ — 200	20k $\Omega$ — 203
500 $\Omega$ — 500	25k $\Omega$ — 253
1000 $\Omega$ — 101	50k $\Omega$ — 503
2000 $\Omega$ — 201	100k $\Omega$ — 104
5000 $\Omega$ — 501	250k $\Omega$ — 254
1k $\Omega$ — 102	500k $\Omega$ — 504
2k $\Omega$ — 202	1M $\Omega$ — 105
5k $\Omega$ — 502	2M $\Omega$ — 205

### Bourns® Potentiometers

Jameco now offers a broad selection of industry-renowned Bourns multi-turn potentiometers below. They're ideal for integration into devices requiring high-precision pots.

Series	3296Y	3299W	3299Y
Part Number	3296Y-1-xxxCM	3299W-1-xxxCM	3299Y-1-xxxCM
1 pc.	\$1.99	\$2.39	\$2.39
10 pcs.	\$1.85	\$2.25	\$2.19
100 pcs.	\$1.66	\$1.99	\$1.79
500 pcs.	\$1.49	\$1.79	\$1.59

## 1/2-Watt, 1/4" Square, Single-Turn Cermet Potentiometers

### Bourns 3362 Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance: ( $500\text{VDC}$ )  $1,000\text{M}\Omega$
- Absolute minimum resistance:  $1\Omega$  or  $2\Omega$  (whichever is greater)
- Contact resistance variation:  $1\%$  or  $3\Omega$  max. (whichever is greater)
- Power rating:  $0.5\text{W}$  @  $70^{\circ}\text{C}$  ( $300\text{V}$  max.)

To order, replace "xxx" in the Part No. with the value to the right (e.g. – order 3362P-503CM for a $50\text{k}\Omega$ ValuePro Series 3362P).	100 $\Omega$ — 101 200 $\Omega$ — 201 500 $\Omega$ — 501 1k $\Omega$ — 102 2k $\Omega$ — 202 5k $\Omega$ — 502 10k $\Omega$ — 103	20k $\Omega$ — 203 25k $\Omega$ — 253 50k $\Omega$ — 503 100k $\Omega$ — 104 200k $\Omega$ — 204 500k $\Omega$ — 504 1M $\Omega$ — 105
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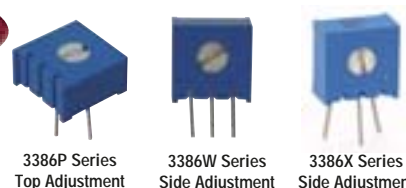
Series	3362P	3362W
Part Number	3362P-xxxCM	3362W-xxxCM
1 pc.	\$0.59	\$0.59
10 pcs.	\$0.55	\$0.54
100 pcs.	\$0.45	\$0.45
500 pcs.	\$0.42	\$0.41

## 1/2-Watt, 3/8" Square, Single-Turn Trimming Potentiometers

### Bourns 3386 Series Value Equivalents

- Resistance tolerance:  $\pm 10\%$
- Insulation resistance: ( $500\text{VDC}$ )  $1,000\text{M}\Omega$  min.
- Absolute minimum resistance:  $2\Omega$
- Contact resistance variation:  $2\%$  or  $3\Omega$  max. (whichever is greater)

To order, replace "xxx" in the Part No. with the value to the right (e.g. – order 3386P-503CM for a $50\text{k}\Omega$ ValuePro Series 3386P).	50 $\Omega$ — 500 100 $\Omega$ — 101 200 $\Omega$ — 201 500 $\Omega$ — 501 1k $\Omega$ — 102 2k $\Omega$ — 202 5k $\Omega$ — 502 10k $\Omega$ — 103 20k $\Omega$ — 203	25k $\Omega$ — 253 50k $\Omega$ — 503 100k $\Omega$ — 104 200k $\Omega$ — 204 250 $\Omega$ — 254 500k $\Omega$ — 504 1M $\Omega$ — 105 2M $\Omega$ — 205
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Series	3386P	3386W	3386X
Part Number	3386P-xxxCM	3386W-xxxCM	3386X-xxxCM
1 pc.	\$0.85	\$0.89	\$0.85
10 pcs.	\$0.76	\$0.79	\$0.76
100 pcs.	\$0.67	\$0.69	\$0.67
500 pcs.	\$0.64	\$0.65	\$0.64



JAMECO ValuePro

## High-Current Toroid Inductors

**EXCLUSIVE**

- DC - DC converter, EMI filter applications • Low radiation
- Low core loss • Low cost • High current capacity
- Operating temperature: -55°C to +105°C
- V = vertical mount; H = horizontal mount
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications



Horizontal Vertical

### 2100 Series Equivalents

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371741CM	2101-V	10.0	10.8	0.006	0.34	0.053	\$1.69	\$1.03	.74
371506CM	2101-H	10.0	10.8	0.006	0.77	0.053	1.69	1.03	.74
371750CM	2102-V	12.0	10.3	0.007	0.34	0.053	1.69	1.04	.74
371514CM	2102-H	12.0	10.3	0.007	0.77	0.053	1.69	1.04	.74
371768CM	2103-V	15.0	7.7	0.012	0.33	0.042	1.69	1.04	.74
371522CM	2103-H	15.0	7.7	0.012	0.76	0.042	1.69	1.04	.74
371776CM	2104-V	18.0	7.4	0.013	0.33	0.042	1.69	1.04	.74
371531CM	2104-H	18.0	7.4	0.013	0.76	0.042	1.69	1.04	.74
371784CM	2105-V	22.0	7.0	0.015	0.33	0.042	1.69	1.04	.74
371549CM	2105-H	22.0	7.0	0.015	0.76	0.042	1.69	1.04	.74
371792CM	2106-V	27.0	5.3	0.026	0.32	0.034	1.69	1.04	.74
371557CM	2106-H	27.0	5.3	0.026	0.75	0.034	1.69	1.04	.74
371805CM	2107-V	33.0	5.0	0.029	0.32	0.034	1.69	1.04	.74
371565CM	2107-H	33.0	5.0	0.029	0.75	0.034	1.69	1.04	.74
371813CM	2108-V	39.0	4.8	0.032	0.32	0.034	1.69	1.04	.74
371573CM	2108-H	39.0	4.8	0.032	0.75	0.034	1.69	1.04	.74
371821CM	2109-V	47.0	3.6	0.055	0.31	0.027	1.69	1.04	.74
371581CM	2109-H	47.0	3.6	0.055	0.75	0.027	1.69	1.04	.74
371830CM	2110-V	56.0	3.4	0.060	0.31	0.027	1.69	1.04	.74
371590CM	2110-H	56.0	3.4	0.060	0.75	0.027	1.69	1.04	.74
371848CM	2111-V	68.0	3.3	0.067	0.31	0.027	1.69	1.04	.74
371602CM	2111-H	68.0	3.3	0.067	0.75	0.027	1.69	1.04	.74
371856CM	2112-V	100.0	2.4	0.13	0.31	0.022	1.69	1.04	.74
371611CM	2112-H	100.0	2.4	0.13	0.74	0.022	1.69	1.04	.74
371864CM	2113-V	120.0	2.2	0.15	0.31	0.022	1.69	1.04	.74
371629CM	2113-H	120.0	2.2	0.15	0.74	0.022	1.69	1.04	.74
371872CM	2114-V	150.0	3.4	0.062	0.35	0.034	1.69	1.04	.74
371637CM	2114-H	150.0	3.4	0.062	0.79	0.034	1.69	1.04	.74
371881CM	2115-V	180.0	2.6	0.11	0.34	0.027	1.69	1.04	.74
371645CM	2115-H	180.0	2.6	0.11	0.77	0.027	1.69	1.04	.74
371899CM	2116-V	220.0	2.4	0.12	0.34	0.027	1.69	1.04	.74
371653CM	2116-H	220.0	2.4	0.12	0.77	0.027	1.69	1.04	.74
371901CM	2117-V	270.0	1.8	0.21	0.33	0.022	1.89	1.17	.84
371661CM	2117-H	270.0	1.8	0.21	0.76	0.022	1.89	1.17	.84
371910CM	2118-V	330.0	1.7	0.23	0.33	0.022	1.89	1.17	.84
371670CM	2118-H	330.0	1.7	0.23	0.76	0.022	1.89	1.17	.84
371928CM	2119-V	390.0	1.7	0.25	0.33	0.022	1.89	1.17	.84
371688CM	2119-H	390.0	1.7	0.25	0.76	0.022	1.89	1.17	.84
371936CM	2120-V	470.0	1.6	0.28	0.35	0.022	1.89	1.17	.84
371696CM	2120-H	470.0	1.6	0.28	0.76	0.022	1.89	1.17	.84
371944CM	2121-V	560.0	1.5	0.30	0.35	0.022	1.89	1.17	.84
371709CM	2121-H	560.0	1.5	0.30	0.79	0.022	1.89	1.17	.84
371952CM	2122-V	680.0	1.4	0.33	0.35	0.022	1.89	1.17	.84
371717CM	2122-H	680.0	1.4	0.33	0.79	0.022	1.89	1.17	.84
371961CM	2123-V	820.0	1.4	0.37	0.35	0.022	1.89	1.17	.84
371725CM	2123-H	820.0	1.4	0.37	0.79	0.022	1.89	1.17	.84
371979CM	2124-V	1000.0	1.3	0.40	0.37	0.022	1.89	1.17	.84
371733CM	2124-H	1000.0	1.3	0.40	0.81	0.022	1.89	1.17	.84

### 2200 Series Equivalents

371266CM	2201-V	10.0	12.5	0.007	0.46	0.053	\$2.15	\$1.31	\$.93
371021CM	2201-H	10.0	12.5	0.007	0.88	0.053	2.15	1.31	.93
371274CM	2202-V	12.0	12.0	0.008	0.46	0.053	2.15	1.31	.93
371039CM	2202-H	12.0	12.0	0.008	0.88	0.053	2.15	1.31	.93
371282CM	2203-V	15.0	11.3	0.008	0.46	0.053	2.15	1.31	.93
371047CM	2203-H	15.0	11.3	0.008	0.88	0.053	2.15	1.31	.93
371291CM	2204-V	18.0	10.8	0.009	0.46	0.053	2.15	1.31	.93
371055CM	2204-H	18.0	10.8	0.009	0.88	0.053	2.15	1.31	.93
371303CM	2205-V	22.0	10.3	0.010	0.46	0.053	2.15	1.31	.93
371063CM	2205-H	22.0	10.3	0.010	0.88	0.053	2.15	1.31	.93

### 2200 Series Equivalents (Continued)

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
371311CM	2206-V	27.0	9.8	0.011	0.46	0.053	\$2.15	\$1.31	\$.93
371071CM	2206-H	27.0	9.8	0.011	0.88	0.053	2.15	1.31	.93
371320CM	2207-V	33.0	7.4	0.020	0.45	0.042	2.15	1.31	.93
371080CM	2207-H	33.0	7.4	0.020	0.87	0.042	2.15	1.31	.93
371338CM	2208-V	39.0	7.1	0.022	0.45	0.042	2.15	1.31	.93
371098CM	2208-H	39.0	7.1	0.022	0.87	0.042	2.15	1.31	.93
371346CM	2209-V	47.0	6.7	0.024	0.45	0.042	2.15	1.31	.93
371101CM	2209-H	47.0	6.7	0.024	0.87	0.042	2.15	1.31	.93
371354CM	2210-V	56.0	6.4	0.026	0.45	0.042	2.15	1.31	.93
371119CM	2210-H	56.0	6.4	0.026	0.87	0.042	2.15	1.31	.93
371362CM	2211-V	68.0	4.9	0.046	0.44	0.034	2.15	1.31	.93
371127CM	2211-H	68.0	4.9	0.046	0.86	0.034	2.15	1.31	.93
371371CM	2212-V	100.0	4.4	0.056	0.44	0.034	2.15	1.31	.93
371135CM	2212-H	100.0	4.4	0.056	0.86	0.034	2.15	1.31	.93
371389CM	2213-V	120.0	3.3	0.098	0.44	0.027	2.15	1.31	.93
371143CM	2213-H	120.0	3.3	0.098	0.86	0.027	2.15	1.31	.93
371397CM	2214-V	150.0	3.1	0.11	0.44	0.027	2.15	1.31	.93
371151CM	2214-H	150.0	3.1	0.11	0.86	0.027	2.15	1.31	.93
371400CM	2215-V	180.0	3.8	0.075	0.48	0.034	2.15	1.31	.93
371160CM	2215-H	180.0	3.8	0.075	0.90	0.034	2.15	1.31	.93
371418CM	2216-V	220.0	3.6	0.083	0.48	0.034	2.15	1.31	.93
371178CM	2216-H	220.0	3.6	0.083	0.90	0.034	2.15	1.31	.93
371426CM	2217-V	270.0	3.4	0.092	0.48	0.034	2.35	1.45	1.03
371186CM	2217-H	270.0	3.4	0.092	0.90	0.034	2.35	1.45	1.03
371434CM	2218-V	330.0	3.3	0.10	0.48	0.034	2.35	1.45	1.03
371194CM	2218-H	330.0	3.3	0.10	0.90	0.034	2.35	1.45	1.03
371442CM	2219-V	390.0	2.5	0.18	0.46	0.027	2.35	1.45	1.03
371207CM	2219-H	390.0	2.5	0.18	0.88	0.027	2.35	1.45	1.03
371451CM	2220-V	470.0	2.3	0.19	0.46	0.027	2.35	1.45	1.03
371215CM	2220-H	470.0	2.3	0.19	0.88	0.027	2.35	1.45	1.03
371469CM	2221-V	560.0	2.2	0.21	0.46	0.027	2.35	1.45	1.03
371223CM	2221-H	560.0	2.2	0.21	0.88	0.027	2.35	1.45	1.03
371477CM	2222-V	680.0	2.1	0.23	0.49	0.027	2.35	1.45	1.03
371231CM	2222-H	680.0	2.1	0.23	0.91	0.027	2.35	1.45	1.03
371485CM	2223-V	820.0	2.0	0.26	0.49	0.027	2.35	1.45	1.03
371240CM	2223-H	820.0	2.0	0.26	0.91	0.027	2.35	1.45	1.03
371493CM	2224-V	1000.0	1.9	0.28	0.49	0.027	2.35	1.45	1.03
371258CM	2224-H	1000.0	1.9	0.28	0.91	0.027	2.35	1.45	1.03

### 2300 Series Equivalents

386901CM	2301-V	10.0	20.0	0.005	0.56	0.066	\$2.19	\$1.49	\$1.13
386361CM	2301-H	10.0	20.0	0.005	1.18	0.066	2.19	1.49	1.13
386935CM	2302-V	12.0	19.1	0.005	0.56	0.066	2.19	1.49	1.13
386396CM	2302-H	12.0	19.1	0.005	1.18	0.066	2.19	1.49	1.13
386951CM	2303-V	15.0	18.0	0.006	0.56	0.066	2.19	1.49	1.13
386425CM	2303-H	15.0	18.0	0.006	1.18	0.066	2.19	1.49	1.13
386978CM	2304-V	18.0	17.2	0.006	0.56	0.066	2.19	1.49	1.13
386441CM	2304-H	18.0	17.2	0.006	1.18	0.066	2.19	1.49	1.13
387006CM	2305-V	22.0	16.4	0.007	0.56	0.066	2.19	1.49	1.13
386468CM	2305-H	22.0	16.4	0.007	1.18	0.066	2.19	1.49	1.13
387022CM	2306-V	27.0	15.6	0.008	0.56	0.066	2.19	1.49	1.13
386484CM	2306-H	27.0	15.6	0.008	1.18	0.066	2.19	1.49	1.13
387049CM	2307-V	33.0	11.7	0.013	0.53	0.053	2.19	1.49	1.13
386505CM	2307-H	33.0	11.7	0.013	1.14	0.053	2.19	1.49	1.13
387065CM	2308-V	39.0	11.2	0.014	0.53	0.053	2.19	1.49	1.13

JAMECO ValuePro

## High Current Toroid Inductors (Continued)

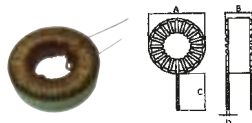
### 2300 Series Equivalents

Part No.	Cross Ref. No.	L (μH) @ 1kHz	IDC max. (A)	DCR max. (Ω)	Lead Spa. (in)	Lead Dia. (in)	Pricing		
							1	10	100
386652CM	2314-H	150.0	5.0	0.071	1.12	0.034	\$2.19	\$1.49	\$1.13
387233CM	2315-V	180.0	4.8	0.078	0.51	0.034	2.19	1.49	1.13
386679CM	2315-H	180.0	4.8	0.078	1.12	0.034	2.19	1.49	1.13
387268CM	2316-V	220.0	5.8	0.054	0.56	0.042	2.19	1.49	1.13
386695CM	2316-H	220.0	5.8	0.054	1.17	0.042	2.19	1.49	1.13
387284CM	2317-V	270.0	5.5	0.060	0.56	0.042	2.19	1.49	1.13
386724CM	2317-H	270.0	5.5	0.060	1.17	0.042	2.19	1.49	1.13
387313CM	2318-V	330.0	5.2	0.067	0.56	0.042	2.19	1.49	1.13
386741CM	2318-H	330.0	5.2	0.067	1.17	0.042	2.19	1.49	1.13
387330CM	2319-V	390.0	5.0	0.072	0.56	0.042	2.19	1.49	1.13
386767CM	2319-H	390.0	5.0	0.072	1.17	0.042	2.19	1.49	1.13

## High Current Toroid Inductors

### 5700 Series Equivalents

- Low radiation • Low core loss
- High current capacity
- Size: A = 22.22mm max.; B = 11.09mm max.  
C = 15.0±1.0mm; D = 1.2±0.5mm
- See page 244 for EMI suppression cores
- See technical datasheets on [www.Jameco.com](http://www.Jameco.com) for complete specifications



Part No.	Cross Ref. No.	L (μH)	IDC max. (A)	L min. @ IDC	Pricing				
					1	10	25	50	100
208258CM	5701	10	11.0	5	\$3.99	\$3.05	\$2.74	\$2.26	\$1.70
208266CM	5702	25	5.5	12	4.19	3.77	3.21	2.56	1.92
208311CM	5711	50	9.5	25	4.95	4.46	3.79	3.03	2.27
208303CM	5707	75	5.0	40	4.35	3.75	3.37	2.78	2.09
208274CM	5703	125	2.75	70	3.99	3.05	2.74	2.26	1.70
208320CM	5712	150	4.75	85	4.35	3.75	3.37	2.78	2.53
208282CM	5704	275	2.0	150	3.99	3.05	2.74	2.26	2.06
208291CM	5705	450	1.5	250	4.35	3.28	2.95	2.44	2.21

TRIAD

## Inductors

- Lead wires
- High pot tested @ 1500Vrms
- Inductance tolerance: -20% to +50%

NEW

### U Case Type

- Lug terminals

Part No.	Product No.	DC Current (mA)	Inductance (H)	Resistance (Ω)	Dimensions (H" x W" x L")	Pricing		
						1	10	100
618329CM	C-59U	12.5	.01	.10	3.5 x 4.1 x 3	\$38.95	\$30.46	\$28.94
618337CM	C-80U	20/40	.024/.006	.10/.025	5.3 x 4.6 x 5.5	92.15	90.89	86.35

See Complete Inductor Offering at [www.Jameco.com/Prod/TriadInductors](http://www.Jameco.com/Prod/TriadInductors)

TRIAD

## High Current Rod Core Inductors

- Rated current @ 40°C temperature rise

NEW

Fig. 1

Fig. 2

Part No.	Product No.	Inductance (mH) ±15%	DC Rated Current (A)	DCR (Ω) max.	Lead Diameter	Pricing		
						1	10	100
629466CM	Firch-2	3.05	9.7	7.3	0.045"	\$2.35	\$1.53	\$1.41
629482CM	Firch-6	7.22	4.8	26.1	0.028"	2.35	1.53	1.41

Fig. 2

Part No.	Product No.	Inductance 10%	DC Rated Current (A)	DCR (Ω) max.	Pricing		
					1	10	100
630256CM	RC-10	100μH	2.0	0.098	\$2.35	\$1.91	\$1.76
630264CM	RC-11	75μH	2.5	0.070	2.35	1.70	1.56
630301CM	RC-7	450μH	1.0	0.420	2.35	1.70	1.56

See Complete Inductor Offering at [www.Jameco.com/Prod/TriadInductors](http://www.Jameco.com/Prod/TriadInductors)

Over 99% of Our Catalog Products Are In Stock

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

JAMECO ValuePro

## Chip Inductors (SMD)

- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place

A JAMECO EXCLUSIVE

PM0805/PM1008

### PM0805 Series Equivalents

Part No.	Cross Ref. No.	L (nH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663592CM	0805-2N2M	2.2	15	6000	0.08	600	\$ .25	\$ .225	\$ .195
663605CM	0805-3N3M	3.3	35	6000	0.08	600	.25	.225	.195
663613CM	0805-6N8M	6.8	50	5500	0.11	600	.25	.225	.195
663621CM	0805-8N2M	8.2	35	4700	0.12	600	.25	.225	.195
663630CM	0805-12NM	12.0	50	4000	0.15	600	.25	.225	.195
663648CM	0805-18NM	18.0	50	3300	0.2	600	.25	.225	.195
663656CM	0805-27NM	27.0	55	2500	0.25	500	.25	.225	.195
663664CM	0805-33NM	33.0	60	2050	0.27	500	.25	.225	.195
663672CM	0805-39NM	39.0	60	2000	0.29	500	.25	.225	.195
663681CM	0805-47NM	47.0	60	1650	0.31	500	.25	.225	.195
663699CM	0805-56NK	56.0	60	1550	0.34	500	.25	.225	.195
663701CM	0805-68NK	68.0	60	1450	0.38	500	.25	.225	.195
663710CM	0805-82NK	82.0	60	1300	0.42	400	.25	.225	.195

### PM1008 Series Equivalents

Part No.	Cross Ref. No.	L (nH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663736CM	1008-10NM	10	50	4100	0.08	1000	\$ .25	\$ .166	\$ .152
663744CM	1008-12NM	12	50	3300	0.09	1000	.25	.166	.152
663752CM	1008-15NM	15	50	2500	0.10	1000	.25	.166	.152
663761CM	1008-18NM	18	50	2500	0.11	1000	.25	.166	.152
663779CM	1008-22NM	22	55	2400	0.12	1000	.25	.166	.152
663787CM	1008-27NM	27	55	1600	0.13	1000	.25	.166	.152
663795CM	1008-33NM	33	60	1600	0.14	1000	.25	.166	.152
663808CM	1008-39NM	39	60	1500	0.15	1000	.25	.166	.152
663816CM	1008-47NM	47	65	1500	0.16	1000	.25	.166	.152
663824CM	1008-56NK	56	65	1300	0.18	1000	.25	.166	.152
663832CM	1008-68NK	68	65	1300	0.20	1000	.25	.166	.152
663841CM	1008-82NK	82	60	1000	0.22	1000	.25	.166	.152
663859CM	1008-R10K	100	60	1000	0.56	650	.25	.166	.152
663867CM	1008-R12K	120	60	950	0.63	650	.25	.166	.152
663875CM	1008-R15K	150	45	850	0.70	580	.25	.166	.152
663883CM	1008-R18K	180	45	750	0.77	620	.25	.166	.152
663891CM	1008-R22K	220	45	660	0.84	500	.25	.166	.152
663904CM	1008-R27K	270	45	600	0.91	500	.25	.166	.152
663912CM	1008-R33K	330	45	570	1.05	450	.25	.166	.152
663921CM	1008-R39K	390	45	500	1.12	470	.25	.166	.152
663939CM	1008-2R7K	2700	22	80	3.20	290	.25	.166	.152
663947CM	1008-3R3K	3300	22	60	3.40	290	.25	.166	.152
663955CM	1008-3R9K	3900	20	60	3.60	260	.25	.166	.152
663963CM	1008-4R7K	4700	18	60	4.00	260	.25	.166	.152

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## Chip Inductors (SMD) (Continued)

A Jameco EXCLUSIVE

- Ceramic core, wire wound for superior reliability
- High self-resonant frequency
- Stable electrical characteristics
- Flat top surface for automated pick and place



PM1210/PM1812

### PM1210 Series Equivalents

- Molded for high reliability and superior environmental protection
- High resistance to solder heat and moisture
- Ferrite bobbin core

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
663971CM	1210-1R0J	1.0	30	120	0.70	400	\$.28	\$.261	\$.166
663980CM	1210-1R2J	1.2	30	100	0.75	390	.28	.261	.166
663998CM	1210-1R5J	1.5	30	85	0.85	370	.28	.261	.166
664000CM	1210-1R8J	1.8	30	80	0.90	350	.28	.261	.166
664018CM	1210-2R2J	2.2	30	75	1.00	320	.28	.261	.166
664026CM	1210-2R7J	2.7	30	70	1.10	290	.28	.261	.166
664034CM	1210-3R3J	3.3	30	60	1.20	260	.28	.261	.166
664042CM	1210-3R9J	3.9	30	55	1.30	250	.28	.261	.166
664051CM	1210-4R7J	4.7	30	50	1.50	220	.28	.261	.166
664069CM	1210-5R6J	5.6	30	45	1.60	200	.28	.261	.166
664077CM	1210-6R8J	6.8	30	40	1.80	180	.28	.261	.166
664085CM	1210-8R2J	8.2	30	35	2.00	170	.28	.261	.166
664093CM	1210-100J	10.0	30	30	2.10	150	.28	.261	.166
664106CM	1210-120J	12.0	30	20	2.50	140	.28	.261	.166
664114CM	1210-150J	15.0	30	20	2.80	130	.28	.261	.166
664122CM	1210-180J	18.0	30	20	3.30	120	.28	.261	.166
664131CM	1210-220J	22.0	30	20	3.70	110	.28	.261	.166
664149CM	1210-270J	27.0	30	20	5.00	80	.28	.261	.166
664157CM	1210-330J	33.0	30	17	5.60	70	.28	.261	.166
664165CM	1210-390J	39.0	30	16	6.40	65	.28	.261	.166
664173CM	1210-470J	47.0	30	15	7.00	60	.28	.261	.166
664181CM	1210-560J	56.0	30	13	8.00	55	.28	.261	.166
664190CM	1210-680J	68.0	30	12	9.00	50	.28	.261	.166
664202CM	1210-820J	82.0	30	11	10.00	45	.28	.261	.166
664211CM	1210-101J	100	20	10	10.00	40	.28	.261	.166
664229CM	1210-121J	120	20	10	11.00	70	.28	.261	.166
664237CM	1210-151J	150	20	8	15.00	65	.28	.261	.166
664245CM	1210-181J	180	20	7	17.00	60	.28	.261	.166
664253CM	1210-221J	220	20	7	21.00	50	.28	.261	.166

### PM1812 Series Equivalents

- Molded construction for high reliability and superior environmental protection
- High resistance to solder heat and moisture

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
643014CM	1812-R10K	0.10	35	300	0.18	800	\$.25	\$.225	\$.176
643022CM	1812-R12K	0.12	35	280	0.20	770	.25	.225	.176
643031CM	1812-R15K	0.15	35	250	0.22	730	.25	.225	.176
643049CM	1812-R18K	0.18	35	220	0.24	700	.25	.225	.176
643057CM	1812-R22K	0.22	40	200	0.25	665	.25	.225	.176
643065CM	1812-R27K	0.27	40	180	0.26	635	.25	.225	.176
643073CM	1812-R33K	0.33	40	165	0.28	605	.25	.225	.176
643081CM	1812-R39K	0.39	40	150	0.30	575	.25	.225	.176
643090CM	1812-R47K	0.47	40	145	0.32	545	.25	.225	.176
643102CM	1812-R56K	0.56	40	140	0.36	520	.25	.225	.176
643111CM	1812-R68K	0.68	40	135	0.40	500	.25	.225	.176
643129CM	1812-R82K	0.82	40	130	0.45	475	.25	.225	.176
643137CM	1812-1R0J	1.0	50	100	0.50	450	.25	.225	.176
643145CM	1812-1R2J	1.2	50	80	0.55	430	.25	.225	.176
643153CM	1812-1R5J	1.5	50	70	0.60	410	.25	.225	.176
643161CM	1812-1R8J	1.8	50	60	0.65	390	.25	.225	.176
643170CM	1812-2R2J	2.2	50	55	0.70	380	.25	.225	.176
643188CM	1812-2R7J	2.7	50	50	0.75	370	.25	.225	.176
643196CM	1812-3R3J	3.3	50	45	0.80	355	.25	.225	.176
643209CM	1812-3R9J	3.9	50	40	0.90	330	.25	.225	.176
643217CM	1812-4R7J	4.7	50	35	1.00	315	.25	.225	.176
643225CM	1812-5R6J	5.6	50	33	1.10	300	.25	.225	.176
643233CM	1812-6R8J	6.8	50	27	1.20	285	.25	.225	.176

### PM1812 Series Equivalents (Continued)

- Molded construction for high reliability and superior environmental protection
- High resistance to solder heat and moisture

Part No.	Cross Ref. No.	L (μH)	Q (min.)	SRF (MHz) min.	DCR Ω max.	Current (mA)	Pricing		
							1	10	100
643241CM	1812-8R2J	8.2	50	23	1.40	270	\$.25	\$.225	\$.176
643250CM	1812-100J	10.0	50	20	1.50	250	.25	.225	.176
643268CM	1812-120J	12.0	50	18	2.00	225	.25	.225	.176
643276CM	1812-150J	15.0	50	17	2.50	200	.25	.225	.176
643284CM	1812-180J	18.0	50	15	2.80	190	.25	.225	.176
643292CM	1812-220J	22.0	50	13	3.20	180	.25	.225	.176
643305CM	1812-270J	27.0	50	12	3.60	170	.25	.225	.178
643313CM	1812-330J	33.0	50	11	4.00	160	.25	.225	.176
643321CM	1812-390J	39.0	50	10	4.50	150	.25	.225	.176
643330CM	1812-470J	47.0	50	10	5.00	140	.25	.225	.176
643348CM	1812-560J	56.0	50	9	5.50	135	.25	.225	.176
643356CM	1812-680J	68.0	50	9	6.00	130	.25	.225	.176
643364CM	1812-820J	82.0	50	8	7.00	120	.25	.225	.176
643372CM	1812-101J	100	40	8	8.00	110	.25	.225	.176
643381CM	1812-121J	120	40	6	8.00	110	.25	.225	.176
643399CM	1812-151J	150	40	5	9.00	105	.25	.225	.176
643401CM	1812-181J	180	40	5	9.50	105	.25	.225	.176
643410CM	1812-221J	220	40	4	10.00	100	.25	.225	.176
643428CM	1812-271J	270	30	4	12.00	92	.25	.225	.176
643436CM	1812-331J	330	40	3.5	14.00	85	.25	.225	.176
643444CM	1812-391J	390	40	3	16.00	80	.25	.225	.176
643452CM	1812-471J	470	40	3	26.00	62	.25	.225	.176
643461CM	1812-561J	560	30	3	30.00	50	.25	.225	.176
643479CM	1812-681J	680	30	3	30.00	50	.25	.225	.176
643487CM	1812-821J	820	30	2.5	35.00	30	.25	.225	.176
643495CM	1812-102J	1000	25	2.5	40.00	30	.25	.225	.176

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## Molded RF Chokes

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### 9230 Series Equivalents

- High Q and high reliability
- Miniature size
- Injection molded to protect coil from extreme environment
- Color bands or numerical marking for identification
- Dielectric strength: 1000Vrms
- Operating temp.: phenolic -55°C to +125°C, iron/ferrite -55°C to +105°C
- Overall length: 2.25" • Lead length: 1.0"
- Body length: 0.25" • Body diameter: 0.095"



Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Ω Max.	I (mA) Max.	Core Material	Pricing		
							1	10	100
372285CM	9230-94	0.10	690	0.07	1100	Phenolic	\$.84	\$.55	\$.37
372293CM	9230-00	0.15	600	0.10	1100	Phenolic	.65	.41	.29
372306CM	9230-04	0.22	510	0.14	935	Phenolic	.81	.51	.33
372314CM	9230-10	0.39	380	0.30	640	Phenolic	.82	.51	.33
372322CM	9230-12	0.47	340	0.35	590	Phenolic	.81	.51	.33
372331CM	9230-14	0.56	300	0.50	495	Phenolic	.84	.76	.62
372349CM	9230-16	0.68	275	0.60	450	Phenolic	.81	.51	.33
372357CM	9230-20	1.0	230	1.0	350	Phenolic	.81	.51	.33
372365CM	9230-32	3.3	90	0.85	380	Iron	.88	.55	.40
372373CM	9230-34	3.9	82	1.0	350	Iron	1.09	.98	.82
372381CM	9230-36	4.7	75	1.2	320	Iron	.88	.55	.40
372390CM	9230-44	10.0	50	3.7	180	Iron	1.01	.62	.45
372402CM	9230-52	22.0	25	3.3	190	Iron	1.03	.63	.46
372411CM	9230-56	33.0	24	3.4	187	Ferrite	1.09	.68	.48
372429CM	9230-64	68.0	15	6.7	135	Ferrite	1.09	.68	.48
372437CM	9230-68	100	13	8.0	125	Ferrite	1.19	.74	.53
372445CM	9230-70	120	12	13.0	97	Ferrite	1.45	1.31	1.06

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).



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## Molded RF Chokes

### 9250 Series Equivalents

- High Q and high reliability
- Ferrite magnetic shielded for low radiation
- Injection molded to protect coil from extreme environment
- Color bands or numerical marking for identification
- Dielectric strength: 1000Vrms
- Operating temp.: -55°C to +105°C

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Part No.	Cross Ref. No.	L ±10% (µH)	SRF (MHz) (Min.)	DCR Max. (Ω)	I (mA) Max.	Core Material	Pricing		
							1	10	100
372453CM	9250-102	1.0	140	0.07	1070	Iron	\$1.59	\$ .97	\$ .68
372461CM	9250-222	2.2	100	0.19	650	Iron	1.59	.97	.68
372470CM	9250-472	4.7	70	0.55	380	Iron	1.59	.97	.68
372488CM	9250-103	10.0	46	1.62	220	Iron	1.59	.97	.68
372496CM	9250-223	22.0	41	0.96	290	Ferrite	1.59	.97	.68
372509CM	9250-473	47.0	27	2.11	195	Ferrite	1.75	1.07	.75
372517CM	9250-104	100.0	10	3.12	160	Ferrite	1.89	1.17	.82
372525CM	9250-224	220.0	7.5	5.0	125	Ferrite	1.89	1.17	.82
372533CM	9250-474	470.0	5.7	9.5	92	Ferrite	1.89	1.17	.82
372541CM	9250-105	1000.0	3.8	17.5	70	Ferrite	1.89	1.17	.82
372550CM	9250-225	2200.0	0.97	33.8	50	Ferrite	2.19	1.34	.94
372568CM	9250-106	10,000.0	0.47	137	24	Ferrite	2.35	1.44	1.01

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## Hash RF Chokes

### 5200 Series Equivalents

- Low cost
- High current capacity
- Low DCR
- Varnish coated
- Ideal for use as EMI filter, output choke, smoothing coil

A Jameco EXCLUSIVE

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Current (mA)	Pricing		
						1	10	100
642396CM	5230	4	7.96	0.012	8.0	\$1.49	\$ .92	\$ .66
642409CM	5240	40	1.0	0.082	3.0	1.49	.92	.66
642417CM	5254	250	1.0	0.17	2.5	1.55	1.23	.88
642425CM	5256	500	1.0	0.25	2.0	1.75	1.07	.75
642433CM	5258	1000	1.0	0.6	1.0	1.79	1.10	.77

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## Axial Leaded RF Chokes

### 4600 Series Equivalents

Quantity SAVE

- Inductive tolerance: 10%
- Operating temperature: -55°C to +125°C
- Size: A = 6.8mm max.; B = 19.0mm max.  
C = 25.0±2.0mm; D = 0.65±0.5mm

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Part No.	Cross Ref. No.	L (µH) @ 1kHz	Q min.	SRF (MHz) min.	DCR Ω max.	IDC (mA)	Pricing		
							1	10	100
208063CM	4602	1	60	190	0.05	2000	\$ .75	\$ .68	\$ .58
208071CM	4604	1.5	58	149	0.093	1800	.75	.68	.51
208080CM	4606	2.4	56	120	0.19	1500	.75	.68	.51
208098CM	4608	3.9	60	93	0.45	1000	.75	.68	.58
208101CM	4609	5.5	57	80	0.67	850	.75	.68	.51
208119CM	4610	6.2	57	76	0.83	700	.75	.68	.51
208127CM	4611	8.2	57	65	1.2	600	.75	.68	.58
208135CM	4612	10	36	61	1.5	500	.75	.68	.58
642337CM	4624	15	62	33	0.17	1000	.75	.68	.58
642345CM	4626	24	65	25	0.34	800	.75	.68	.58
642353CM	4629	55	72	17	1	500	.75	.68	.58
642388CM	4632	100	107	12	3	400	1.05	.95	.80

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## High Current Axial RF Chokes

- High current capacity
- Ferrite bobbin core
- Low DCR
- Test frequency: 1kHz

### 5800 Series Equivalents

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Part No.	Cross Ref. No.	L ±10% (µH)	DCR Max. (Ω)	DC Current Max. (A)	Pricing		
					1	10	100
642548CM	5800-3R9	3.9	0.019	1.28	\$1.19	\$ .72	\$ .51
642556CM	5800-8R2	8.2	0.028	1.28	1.19	.72	.51
642564CM	5800-100	10	0.033	1.28	1.19	.72	.51
642572CM	5800-470	47	0.109	0.804	1.19	.72	.51
642581CM	5800-560	56	0.14	0.804	1.19	.72	.51
642599CM	5800-820	82	0.152	0.804	1.19	.72	.51
642601CM	5800-101	100	0.208	0.632	1.19	.72	.51
642610CM	5800-121	120	0.283	0.508	1.19	.72	.51
642628CM	5800-151	150	0.34	0.508	1.19	.72	.51
642636CM	5800-181	180	0.362	0.508	1.19	.72	.51
642644CM	5800-221	220	0.43	0.508	1.19	.72	.51
642652CM	5800-271	270	0.557	0.4	1.19	.72	.51
642661CM	5800-331	330	0.665	0.4	1.19	.72	.51
642679CM	5800-391	390	0.772	0.4	1.19	.72	.51
642687CM	5800-471	470	1.15	0.315	1.19	.72	.51
642695CM	5800-102	1000	2.30	0.200	1.19	.72	.51
642708CM	5800-152	1500	3.45	0.158	1.19	.72	.51
642716CM	5800-222	2200	4.48	0.158	1.19	.72	.51
642724CM	5800-472	4700	10.5	0.1	1.19	.72	.51
642732CM	5800-602	6800	16.3	0.082	1.19	.72	.51
642741CM	5800-103	10,000	26.4	0.05	1.19	.72	.51

### 5900 Series Equivalents

642759CM	5900-100	10	0.017	8.7	\$2.09	\$1.28	\$ .90
642767CM	5900-220	22	0.026	6.07	2.09	1.28	.90
642775CM	5900-470	47	0.035	4	2.09	1.28	.90
642783CM	5900-560	56	0.037	3.66	2.09	1.28	.90
642791CM	5900-101	100	0.09	2.79	2.09	1.28	.90
642804CM	5900-121	120	0.113	2.54	2.09	1.28	.90
642812CM	5900-151	150	0.129	2.22	2.09	1.28	.90
642821CM	5900-221	220	0.162	1.89	2.09	1.28	.90
642839CM	5900-271	270	0.208	1.63	2.09	1.28	.90
642847CM	5900-331	330	0.212	1.51	2.09	1.28	.90
642855CM	5900-391	390	0.281	1.39	2.09	1.28	.90
642863CM	5900-471	470	0.38	1.2	2.09	1.28	.90
642871CM	5900-681	680	0.548	1	2.09	1.28	.90
642880CM	5900-102	1000	0.844	0.8	2.09	1.28	.90
642898CM	5900-152	1500	1.18	0.7	2.09	1.28	.90
642901CM	5900-472	4700	3.19	0.4	2.09	1.28	.90
642919CM	5900-682	6800	5.69	0.322	2.09	1.28	.90
642927CM	5900-103	10,000	7.3	0.266	3.19	1.97	1.39

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## Conformal Coated RF Chokes

### 5300 Series Equivalents

- High current and high self-resonant frequency
- Low DCR
- Low cost
- Epoxy coated to protect winding from harsh environments

A Jameco EXCLUSIVE

Part No.	Cross Ref. No.	L ±10% (µH)	Res. Freq. Min. (MHz)	DCR Max. (Ω)	Current Max. (mA)	Pricing		
						1	10	100
644332CM	5300-03	1.5	160.0	0.019	3300	\$1.29	\$1.16	\$1.00
644341CM	5300-10	5.6	64.0	0.074	1600	1.29	1.16	1.00
644367CM	5300-13	10.0	25.0	0.095	1500	1.29	1.16	1.00
644375CM	5300-17	22.0	8.4	0.19	1000	1.29	1.16	1.00
642476CM	5300-19	33.0	7.6	0.24	910	1.29	1.16	1.00
642492CM	5300-25	100.0	3.9	0.67	550	1.29	1.16	1.00
642530CM	5300-33	470.0	1.4	3.4	240	1.29	1.16	.88

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

## JAMECO ValuePro Epoxy Conformal Coated RF Chokes

### 77F Series Equivalents

- High current and self-resonant frequency
- Low DCR • Low cost • Color bands identification
- Dielectric strength: 550Vrms • Body length: 0.41"
- Operating temp.: -55°C to +105°C
- Overall length: 2.41" • Lead length: 1.0"



Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
371995CM	77F6R8	6.8	68.0	0.48	550	\$.43	\$.39	\$.32
372007CM	77F100	10.0	45.0	0.58	500	.43	.39	.32
372015CM	77F270	27.0	7.6	0.94	390	.43	.39	.32
372023CM	77F330	33.0	6.3	1.03	370	.43	.39	.32
372031CM	77F470	47.0	6.3	1.22	340	.43	.39	.32
372040CM	77F820	82.0	5.3	1.62	290	.43	.39	.32
372058CM	77F101	100.0	4.8	1.80	275	.43	.39	.32
372066CM	77F221	220.0	3.0	5.10	155	.43	.39	.32
372074CM	77F331	330.0	2.6	6.40	137	.43	.39	.32
372082CM	77F391	390.0	2.4	7.00	133	.43	.39	.32
372091CM	77F102	1000.0	1.4	14.0	100	.43	.39	.32

\* L (μH) ±5%

### 78F Series Equivalents

- High Q and self-resonant frequency
- Low DCR • Low cost • Color bands identification
- Dielectric strength: 500Vrms • Body length: 0.28"
- Operating temp.: -55°C to +105°C
- Overall length: 2.28" • Lead length: 1.0"



Part No.	Cross Ref. No.	L ±10% (μH)	SRF (MHz) (min.)	DCR Max. (Ω)	I (mA) Max.	Pricing		
						1	10	100
372103CM	78FR68	0.68	250	0.12	495	\$.42	\$.26	\$.173
372111CM	78F1R0	1.0	180	0.15	385	.42	.26	.173
372120CM	78F1R8	1.8	125	0.25	455	.42	.26	.173
372138CM	78F2R7	2.7	95	0.30	355	.42	.26	.173
372146CM	78F3R3	3.3	70	0.34	270	.42	.26	.173
372154CM	78F4R7	4.7	50	0.35	230	.42	.26	.173
372162CM	78F8R2	8.2	28	0.55	155	.42	.26	.173
372171CM	78F100	10.0	22	0.72	130	.42	.26	.173
372189CM	78F120	12.0	20	0.80	155	.42	.26	.173
372197CM	78F220	22.0	13	1.20	140	.42	.26	.173
372200CM	78F270	27.0	11	1.35	135	.42	.26	.173
372218CM	78F330	33.0	10	1.50	195	.42	.26	.173
372226CM	78F390	39.0	9.5	1.70	185	.42	.26	.173
372234CM	78F470	47.0	8.5	2.30	167	.42	.26	.173
372242CM	78F101	100.0	5.5	3.50	125	.42	.26	.173
372251CM	78F121	120.0	5.4	3.80	100	.42	.26	.173
372269CM	78F221	220.0	4.0	5.70	76	.42	.26	.173
372277CM	78F471	470.0	2.5	11.60	53	.42	.26	.173

\* L (μH) ±5%

## Epoxy Conformal Coated Chokes

- Operating temperature: -25°C to +85°C
- Tolerance: 5%
- Size: A = 3.2mm max. B = 7.0mm max.  
C = 0.48±0.5mm (except P/N 208143CM: 0.50±0.5mm) D = 63±3mm



Part No.	L (μH)	Q (min.)	Test. Freq (MHz)	Res. Freq Min. (MHz)	DCR Max. (Ω)	Max. DC Curr. (mA)	Pricing		
							1	10	100
208143CM	10	60	7.96	28.7	1.56	670	\$.49	\$.45	\$.39
208151CM	27	50	2.52	10.2	2.39	410	.42	.34	.168
208160CM	33	50	2.52	8.4	2.71	380	.49	.45	.338
208178CM	47	50	2.52	6.9	3.3	330	.42	.341	.173
208186CM	82	45	2.52	5.4	4.62	240	.42	.213	.16
208194CM	100	45	2.52	5.0	4.98	240	.49	.45	.39
208207CM	220	45	0.796	3.3	9.23	180	.42	.341	.173
208215CM	330	45	0.796	2.7	13.2	140	.42	.213	.16
208223CM	470	45	0.796	2.2	21.4	120	.42	.341	.173
208231CM	820	45	0.796	1.7	28.4	90	.42	.213	.16
208240CM	1000	45	0.796	1.5	31.3	80	.49	.45	.39

## NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Operating temp.: -30°C ~ +130°C
- Maximum allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%



Part No.	Product No.	Resistance (Ω @ 25°C)	B Constant (25/50°C >10%)	Temp. Coef. @ 25°C (%/°C)	Pricing			
					1	10	100	500
207520CM	NTC-101	100	3100	-3.5	\$.52	\$.468	\$.352	\$.30
207511CM	NTC-201	200	3100	-3.5	.52	.468	.36	.34
207503CM	NTC-301	300	3100	-3.5	.52	.468	.352	.264
207491CM	NTC-501	500	3100	-3.5	.52	.47	.35	.26
207482CM	NTC-102	1k	3800	-4.3	.59	.49	.39	.32
207474CM	NTC-202	2k	3800	-4.3	.52	.47	.35	.26
207466CM	NTC-302	3k	3900	-4.4	.52	.47	.35	.26
207458CM	NTC-402	4k	3900	-4.4	.52	.468	.352	.264
207440CM	NTC-502	5k	3900	-4.4	.59	.49	.39	.293
207036CM	NTC-103	10k	4100	-4.6	.59	.49	.39	.32
207028CM	NTC-153	15k	4100	-4.6	.52	.47	.35	.26
207010CM	NTC-203	20k	4200	-4.7	.59	.49	.39	.293
207001CM	NTC-503	50k	4200	-4.7	.59	.49	.39	.293
206990CM	NTC-104	100k	4400	-4.9	.59	.49	.39	.32
206981CM	NTC-204	200k	4500	-5.1	.49	.42	.334	.251

## Modem Coupling Transformers

- ±20% impedance matching and DC resistance matching
- Insulation resistance: 100MΩ • Vacuum wax impregnated
- Core type: EI-14
- Hipot tested: 1000VAC



### 117760CM:

- Dielectric strength: 1250VAC
- Insertion loss: 2.50dB @ 1kHz

Part No.	Cross Ref. No.	Impedance (Ω)		Resistance (Ω)		Pricing		
		Primary	Secondary	Primary	Secondary	1	10	100
125356CM	XFR6006A14	600CT	600CT	65	55	\$1.35	\$1.28	\$1.17
117760CM	671-8014	600	600	108	120	1.99	1.69	1.27

## TRIAD Data Voice Coupling Transformers

- Meets requirements for access over leased private lines or through dial-up switched telephone network
- Applications: impedance matching, isolation, repeat coil, line balancing, and hybrid circuits
- Designed to meet FCC part 68.310: 60dB min., 200-1000Hz; 45dB min., 1000-4000Hz
- Dielectric strength FCC68.304: 1500V • Power level: -45dBm to +7dBm
- Frequency range: data voice: 300 ~ 3500Hz; data: 800 to 3500Hz



### Data/Voice Coupling Transformers

- Typical frequency response: ±0.5

**NEW**

\* Split

Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	100
630491CM	TY-303P	4000	600	0	1.0	26	\$5.29	\$4.03	\$3.52
630504CM	TY-305P	600	600	100	1.5	10	10.39	6.85	6.28
630512CM	TY-306P	600*	600	75	1.5	10	10.39	6.85	6.28
630521CM	TY-307P	600	600	0	1.0	26	6.09	4.01	3.68
630539CM	TY-400P	600	600	90	1.75	15	7.95	5.22	4.78
630547CM	TY-401P	600CT	600CT	90	1.75	15	7.95	5.22	4.78
630555CM	TY-402P	600	600	90	1.75	13	6.55	4.32	3.96
630563CM	TY-403P	600	600*	90	1.75	13	6.55	4.32	3.96


### Data/Voice Dual Transformer Hybrid


630475CM: Trans-hybrid loss: 50dB

630483CM: Trans-hybrid loss: 55dB

Part No.	Prod. No.	Impedance (Ω)		DC Current (mA) max.	Typical Loss dB		Pricing		
		Primary	Secondary		Insertion	Return	1	10	100
630475CM	TY-300P	600 (4W)	600/600	0	0.8	30	\$5.29	\$3.48	\$3.19
630483CM	TY-302P	600 (4W)	600/600	0	0.65	32	7.95	5.22	4.78

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## TRIAD PC Mount Audio Transformers

- Impedance matching: 10% over frequency range
- Applications: line matching, telephone coupling, pulse trigger, driver, interstage, output, isolation, & input

NEW



- Size: 5/8"H x 9/32"D x 13/16"L

Part No.	Product No.	Output (mW)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630432CM	TY-141P	200	10,000CT	10,000CT	4mA	\$3.59	\$2.74	\$2.39
630441CM	TY-142P	100	10,000CT	2,000CT	4mA	3.69	2.82	2.47
630459CM	TY-145P	100	600CT	600CT	15mA	3.59	2.74	2.52

- Size: 1-1/8"H x 1-1/8"D x 1-3/8"L

Part No.	Product No.	Output (W)	Impedance (Ω)		Primary DC Unbalance	Pricing		
			Primary	Secondary		1	10	100
630467CM	TY-146P	1	600CT/150	600CT/150	—	\$6.65	\$5.09	\$4.42

See page 336 for more Audio Transformers.



## LA Series Equivalent Radial Leaded Varistors



\* Prepackaged: please order in increments of 10 or 100

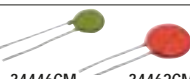
Part No.	Cross Ref. No.	Size Dia. (mm)	Continuous Voltage		Transient Energy (Joules)	Maximum Clamping Voltage		Pricing		
			RMS V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK</sub> (A)	1	10	100
667032CM	V130LA2	7	130	200	17.5	340	10	* .15	.112	
667091CM	V150LA2	7	150	240	21	395	10	* .13	.112	
667155CM	V275LA2	7	275	430	40	710	10	* .13	.112	
667041CM	V130LA5	10	130	200	35	340	25	* .16	.144	
667067CM	V140LA5	10	140	220	39	360	25	* .158	.144	
667104CM	V150LA5	10	150	240	42	395	25	* .15	.128	
667147CM	V250LA10	10	250	390	70	650	25	* .16	.144	
667366CM	V130LA10A	14	130	200	70	340	50	.21	.19	.168
667075CM	V140LA10A	14	140	220	78	360	50	.26	.228	.198
667112CM	V150LA10A	14	150	240	84	395	50	.26	.228	.198
667180CM	V320LA20A	14	320	510	190	845	50	.26	.228	.198
667201CM	V420LA20A	14	420	680	130	1120	50	.26	.228	.198
667227CM	V480LA40A	14	485	780	148	1290	50	.34	.308	.269
667243CM	V510LA40A	14	510	820	157	1355	50	.49	.435	.384
667059CM	V130LA20B	20	130	200	140	340	100	.41	.359	.313
667121CM	V150LA20A	20	150	240	170	395	100	.41	.359	.313
667163CM	V275LA40A	20	275	430	303	710	100	.41	.359	.313
667198CM	V320LA40B	20	320	510	382	845	100	.37	.33	.30
667219CM	V420LA40B	20	420	680	23	1120	100	.52	.468	.416
667235CM	V480LA80B	20	485	780	265	1290	100	.60	.58	.52
667251CM	V510LA80B	20	510	820	282	1355	100	.62	.55	.472

## LA Series Radial Leaded Varistors

- AC power line applications
- High energy absorption
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components"



LA Series		Size Dia. (mm)	Max. Ratings (+85°C)			Characteristics at 25°C		Pricing			
			Continuous V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>	Transient Energy (10/100µs) W <sub>TM</sub>	Max Clamping Volt. @ I <sub>PK</sub> Value Curr. (8/20µs) V	I <sub>PK</sub> =2.0A Amps	1	10	100	500
34446CM	V130LA10A	14	130	175	38	340	50	\$ .29	\$ .25	\$ .22	\$ .20
34471CM	V250LA20A	14	250	330	72	650	50	.39	.35	.32	.30
34462CM	V130LA20A	20	130	175	70	340	100	.59	.56	.54	.52



## ZA Series Equivalent Radial Leaded Varistors



\* Prepackaged: please order in increments of 10 or 100

Part No.	Cross Ref. No.	Size Dia. (mm)	Continuous Voltage		Transient Energy (Joules)	Maximum Clamping Voltage		Pricing		
			RMS V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>		V <sub>C</sub>	I <sub>PK</sub> (A)	1	10	100
667358CM	V182A05	5	11	18	0.3	40	1	* .15	.128	
666785CM	V222A05	5	14	22	0.4	80	1	.20	.166	.128
666831CM	V272A05	5	17	27	0.5	60	1	* .13	.112	
666996CM	V220ZA05	5	140	220	4.5	380	5	.25	.221	.192
667008CM	V330ZA05	5	210	330	6.5	580	5	.25	.221	.192
667016CM	V390ZA05	5	250	390	8	675	5	.23	.203	.182
667382CM	V182A1	7	11	18	0.8	36	2.5	* .15	.128	
666793CM	V222A1	7	14	22	0.9	43	2.5	.20	.166	.128
666873CM	V562A2	7	35	56	2.2	110	2.5	* .13	.112	
666890CM	V682A2	7	40	68	2.5	135	2.5	* .13	.112	
666961CM	V180ZA1	7	115	180	8	300	10	.20	.166	.128
666751CM	V182A2	10	11	18	1.5	36	5	* .16	.144	
666806CM	V222A2	10	14	22	2.04	43	5	* .16	.144	
666865CM	V472A3	10	47	38	4.5	93	5	* .16	.144	
666902CM	V682A3	10	40	68	6.5	135	5	* .16	.144	
666929CM	V822A4	10	50	82	8	135	25	.29	.253	.224
666970CM	V180ZA5	10	115	180	18	300	25	* .158	.144	
666769CM	V182A3	14	11	18	3.5	36	10	.26	.228	.198
666814CM	V222A3	14	14	22	4	43	10	.33	.294	.256
666857CM	V472A7	14	30	47	8.5	93	10	.26	.228	.198
666881CM	V562A8	14	35	56	10	110	10	.26	.228	.198
666911CM	V682A10	14	40	68	12	135	10	.26	.228	.198
666937CM	V822A12	14	50	82	14	135	50	.33	.294	.256
666945CM	V100ZA15	14	60	100	18	165	50	.26	.228	.198
666988CM	V180ZA10	14	115	180	30	300	50	.26	.228	.198
666777CM	V182A40	20	11	18	10	36	—	.41	.359	.313
666822CM	V24ZA50	20	14	22	13	43	—	.41	.356	.313
666849CM	V472A20	20	30	68	30	93	—	.41	.359	.313
666953CM	V150ZA20	20	95	150	50	250	—	.33	.292	.256



## ZA Series Radial Leaded Varistor

- Through-hole mount
- Bidirectional clamping polarity

ZA Series		Size Dia. (mm)	Max. Ratings (+85°C)			Characteristics at 25°C		Pricing (100 pcs. minimum)		
			Continuous V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>	Transient Energy (10/100µs) W <sub>TM</sub>	Max Clamping Voltage (8/20µs) V <sub>C</sub>	I <sub>PK</sub> Amps	100	250	500
638231CM	V682A2	7	40	56	3	127	5	\$ .204	\$ .194	\$ .18



## BA Series Metal Oxide Varistor

- Bolt-down mount
- Bidirectional clamping polarity

BA Series		Size Dia. (mm)	Max. Ratings (+85°C)			Characteristics at 25°C		Pricing		
			Continuous V <sub>M(AC)</sub>	DC V <sub>M(DC)</sub>	Transient Energy (2ms) W <sub>TM</sub>	Varistor Voltage at 1mA DC Test Current V <sub>N(DC)</sub>	I <sub>PK</sub> Amps	1	10	100
638223CM	V481BA60	480	640	1600	670	750	825	\$103.25	\$98.06	\$93.16

Lowest Price  
GuaranteeHave you found a product at a lower print-advertised price?  
We'll beat that price by 10%, right down to our cost!

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Resettable Fuses

Resettable fuses improve reliability and lower costs. Polymer Positive Temperature Coefficient (PPTC) fuses have provided designers in numerous industries a new tool in their battle to improve product quality and performance. As PPTC fuses are resettable, warranty costs and service calls are largely avoided.

### RA Series

- Rated voltage ( $V_{MAX}$ ): 60V
- Max. current ( $I_{MAX}$ ): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.

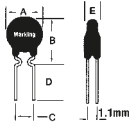


Fig. 1

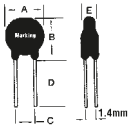


Fig. 2

Part No.	Mfg. P/N	Hold Curr. ( $I_H$ , A)	Trip Curr. ( $I_T$ , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199814CM	RA010-60	0.10	0.20	1	7.4	12.7	5.1	\$.45	\$.41	\$.39	\$.31
199831CM	RA020-60	0.20	0.40	1	7.4	12.2	5.1	.45	.41	.39	.31
199849CM	RA025-60	0.25	0.50	1	7.4	12.7	5.1	.45	.41	.39	.292
199857CM	RA030-60	0.30	0.60	1	7.4	13.0	5.1	.45	.41	.39	.31
199865CM	RA040-60	0.40	0.80	1	7.6	13.5	5.1	.49	.44	.41	.32
199874CM	RA050-60	0.50	1.00	1	7.9	13.7	5.1	.49	.46	.43	.32
199881CM	RA065-60	0.65	1.30	1	9.7	14.5	5.1	.50	.47	.43	.34
199890CM	RA075-60	0.75	1.50	1	10.4	15.2	5.1	.50	.47	.43	.34
199902CM	RA090-60	0.90	1.80	1	11.7	15.8	5.1	.52	.49	.45	.337
199912CM	RA110-60	1.10	2.20	2	13.0	18.0	5.1	.57	.55	.52	.40
199929CM	RA135-60	1.35	2.70	2	14.5	19.6	5.1	.46	.45	.42	.33
199937CM	RA160-60	1.60	3.20	2	16.3	21.3	5.1	.59	.54	.49	.37
199945CM	RA185-60	1.85	3.70	2	17.8	22.9	5.1	.47	.44	.36	.32
199953CM	RA250-60	2.50	5.00	2	21.3	26.4	10.2	.68	.63	.57	.427
199961CM	RA300-60	3.00	6.00	2	24.9	30.0	10.2	.55	.50	.45	.372
199970CM	RA375-60	3.75	7.50	2	28.5	33.5	10.2	.55	.50	.45	.41

Blue Part No. = Limited Quantity Available

### RB Series

- Rated voltage ( $V_{MAX}$ ): 30V
- Max. current ( $I_{MAX}$ ): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.0mm max.

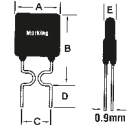


Fig. 3

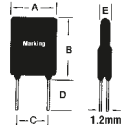


Fig. 4

Part No.	Mfg. P/N	Hold Curr. ( $I_H$ , A)	Trip Curr. ( $I_T$ , A)	Fig.	Size (mm)			Pricing			
					A	B	C	1	10	100	500
199988CM	RB090-30	0.90	1.80	3	7.4	12.2	5.1	\$.48	\$.43	\$.35	\$.26
199996CM	RB110-30	1.10	2.20	3	7.4	14.2	5.1	.48	.43	.39	.31
200002CM	RB135-30	1.35	2.70	3	8.9	13.5	5.1	.39	.32	.29	.252
200011CM	RB160-30	1.60	3.20	3	8.9	15.2	5.1	.45	.42	.39	.31
200030CM	RB185-30	1.85	3.70	3	10.2	15.7	5.1	.48	.43	.39	.32
200037CM	RB250-30	2.50	5.00	3	11.4	18.3	5.1	.48	.44	.41	.307
200046CM	RB300-30	3.00	6.00	4	11.4	17.3	5.1	.57	.52	.48	.37
200053CM	RB400-30	4.00	8.00	4	14.0	20.1	5.1	.62	.57	.52	.40
200061CM	RB500-30	5.00	10.00	4	14.0	24.9	10.2	.67	.60	.54	.44
200070CM	RB600-30	6.00	12.00	4	16.5	24.9	10.2	.73	.67	.61	.48
200088CM	RB700-30	7.00	14.00	4	19.1	26.7	10.2	.52	.46	.44	.422
200109CM	RB900-30	9.00	18.00	4	24.1	29.7	10.2	.89	.79	.69	.59

### Fuse Clips

- Low contact resistance
- Withstands shock and vibration

Prepackaged: order in increments of 10, 100 or 1000



Fig. 1

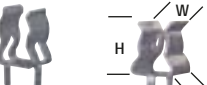


Fig. 2

Part No.	Description	Fig.	Size (H" x W" x D" x P")	10	100	1000
102859CM	5mm, front leads	1	.37 x .25 x .21 x .19	\$.12	\$.09	\$.05
119280CM	5mm, side leads	2	.33 x .25 x .20 x .21	.09	.08	.07
102841CM	1/4", front leads (10A)	3	.32 x .27 x .25 x .23	.09	.08	.07
220732CM	5mm, front leads (10A)	3	.33 x .27 x .25 x .29	.15	.10	.07

### 1/4" x 1/4" Standard Fuses

#### Fast Acting Fuses (250V) AGC/3AG Fuses

Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Cross Ref.	10	100	1000
69403CM	250mA	AGC-250mA	\$.20	\$.18	\$.16
10410CM	500mA	AGC-1/2	.20	.18	.16
197510CM	630mA	AGC-630mA	.17	.14	.12
10372CM	1A	AGC-1	.20	.12	.11
197528CM	1.6A	AGC-1.6	.15	.133	.099
10381CM	2A	AGC-2	.20	.12	.11
197536CM	2.5A	AGC-2 1/2	.26	.12	.10
69438CM	3A	AGC-3	.20	.12	.11
197544CM	4A	AGC-4	.22	.20	.18
10401CM	5A	AGC-5	.22	.20	.18
197552CM	6.3A	AGC-6.3	.22	.20	.18
69462CM	10A	AGC-10	.25	.22	.20
186301CM	16A	—	.25	.22	.20

#### Slow Blow Fuses (250V) MDL/3AG Fuses

Part No.	Amps	Cross Ref.	1	10	100	1000
25654CM	250mA	MDL-1/4	\$.75	\$.59	\$.50	\$.40
25689CM	500mA	MDL-1/2	.69	.59	.50	.37
25638CM	1A	MDL-1	.69	.59	.50	.37
25646CM	2A	MDL-2	.55	.44	.34	.28
69534CM	3A	MDL-3	.55	.44	.34	.28
25671CM	5A	MDL-5	.55	.44	.34	.28
69569CM	10A	MDL-10	.75	.65	.51	.40

### 5mm x 20mm Mini Fuses

#### Fast Acting Fuses (250V) GMA Fuses

- Recommended for new designs
- Prepackaged: order in increments of 10, 100, 500 or 1000

Part No.	Amps	Cross Ref.	10	100	500	1000
103886CM	250mA	GMA-250mA	\$.20	\$.15	\$.11	\$.10
102040CM	500mA	GMA-500mA	.20	.15	.11	.10
103907CM	1A	GMA-1	.20	.15	.11	.10
103915CM	2A	GMA-2	.25	.18	.13	.12
103923CM	3A	GMA-3	.20	.15	.11	.10
103931CM	5A	GMA-5	.20	.15	.11	.10

#### Slow Blow Fuses (250V) GMD Fuses

- Prepackaged: order in increments of 10, 100 or 1000

Part No.	Amps	Cross Ref.	10	100	1000
197501CM	500mA	GMD-500mA	\$.29	\$.26	\$.23
197464CM	1A	GMD-1	.29	.26	.23
197472CM	2A	GMD-2	.35	.32	.29
197481CM	3.15A	GMD-3.15	.35	.32	.29
197499CM	5A	GMD-5	.35	.32	.29

### 5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- Size: 1.4"L x 0.6"Dia.
- D-style mounting hole: 1 ea. 0.5"Dia x .46" flat

Part No.	Description	1	10	100
102832CM	Fuse holder UL/CSA	\$1.95	\$1.79	\$1.59

### Panel Mount Fuse Holders

#### 1/4" x 1/4" Standard Thumbscrew Cap

- Straight solder terminal; 10A @ 250VAC 18702CM

Part No.	Approvals	Size	Mounting Hole	1	10	100	1000
120993CM	—	1.95"L x .71"Dia.	.58"Dia. (Double D-style)	\$.79	\$.69	\$.55	\$.49
18702CM	UL/CSA	2.05"L x .71"Dia.	.58"Dia. x .52"Flat (D-style)	1.59	1.35	1.15	.99

#### 5mm x 20mm Miniature Thumbscrew Cap

- Straight solder terminal; Size: 1.5"L x 0.6"Dia.

Part No.	Approvals	Current	Mounting Hole	1	10	100	1000
150463CM	—	6A @ 250VAC	.50"Dia. x .43"Flat	\$.99	\$.86	\$.75	\$.57
102824CM	UL/CSA	10A @ 250VAC	.50"Dia.	.99	.85	.72	.59

### In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center
- Wire color: red; except for P/N 108783CM orange

#### 1/4" x 1/4" Standard

Part No.	AWG	Wire Lgths	Body Size(L)	Color	1	10	100
109321CM	22	3.5/3"	2.4"	Black	\$.65	\$.58	\$.52
102867CM	20	3/3"	2.2"	White	.65	.58	.48
151917CM	18	6/6"	2.4"	White	.99	.85	.65
108783CM	16	21/26"	2.2"	Black	.99	.87	.68
108791CM	14	19/25"	2.5"	Black	1.59	1.45	1.05

#### 5mm x 20mm Miniature

Part No.	AWG	Wire Color	Body Size (L)	1	10	100
109330CM	20	Red	1.8"	\$.69	\$.56	\$.42

### 5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/CEE4 specifications
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A

Part No.	Product No.	1	10	25
645343CM	K/FF	\$12.29	\$11.68	\$11.09



## Fuse Series



### ATO® 257 Series

- Fast acting and Slo-Blo® type fuses
- Standard for automobiles & trucks

### FLNR Fuses

- Dual-element, time-delay • 250VAC

### AC Midget — KLK Series

- For use in circuits w/ high AC fault current capacity

### Class CC — CCMR Series

- Fast acting protection to equipment containing surge sensitive components

### ATO® In-Line Fuse holders

- For use with ATO® Fuses 1-20A
- Supplied with (2) 4" wire leads/16AWG

### LR60060-3 Class R Fuse holder

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

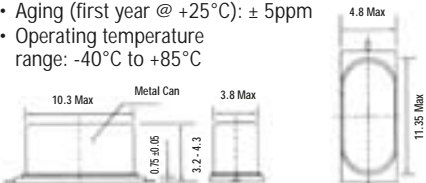
See Our Complete Littelfuse Offering at  
[www.Jameco.com/Prod/Littelfuse](http://www.Jameco.com/Prod/Littelfuse)



## SMD HC49US Crystals

The CSM-7 is an excellent choice for SMD version of the CHC-49US leaded crystal. The CSM-7 has a case height of 4.3mm maximum in a resistance weld metal package.

- Frequency stability:  $\pm 100\text{ppm}$
- Drive level: 0.5mw
- Aging (first year @  $+25^\circ\text{C}$ ):  $\pm 5\text{ppm}$
- Operating temperature range:  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$



Part No.	Product No.	Freq. (MHz)	Imped.	1	10	100
325868CM	JVP-325868	3.579545	17pF	.83	.70	.53
325876CM	JVP-325876	3.6864	20pF	.83	.70	.525
325884CM	JVP-325884	4.0	20pF	.83	.70	.525
325892CM	JVP-325892	6.0	32pF	.83	.70	.525
325905CM	JVP-325905	7.3728	20pF	.83	.70	.525
325913CM	JVP-325913	8.0	18pF	.83	.70	.525
325921CM	JVP-325921	12.0	20pF	.83	.70	.525
325930CM	JVP-325930	14.31818	20pF	.83	.70	.525
325948CM	JVP-325948	16.0	20pF	.83	.70	.56
325956CM	JVP-325956	18.432	20pF	.83	.70	.525
325964CM	JVP-325964	19.6608	20pF	.83	.70	.525
325972CM	JVP-325972	20.0	20pF	.83	.70	.55
325981CM	JVP-325981	24.0	20pF	.83	.70	.525



## Crystal Oscillator Sockets

- Can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooling on 4 pins • 14-pin
- Good for prototyping and PCB mounting



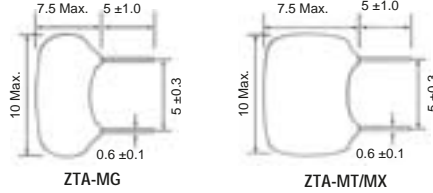
Part No.	Description	1	10	100	1000
133006CM	Full can size	.55	.46	.34	.31
676385CM	Half can size	.51	.434	.314	.272



## Ceramic Resonators

The ZTA series ceramic resonator offers wide frequency range and extended temperature range capabilities.

- Frequency accuracy:  $\pm 0.5\%$  @  $25^\circ\text{C}$
- Wide frequency range
- Extended temperature range:  $-20^\circ\text{C}$  to  $+85^\circ\text{C}$
- Temperature stability:  $\pm 0.3\%$
- Aging for 10 years:  $\pm 0.3\%$
- Withstanding voltage (5 sec.): 100V max.
- High stability
- Low profile
- Drive level: 0.5mw



- Resonant resistance: 30Ω max.

Part No.	Comparable to:	Freq. (MHz)	Pins	1	10	100
324591CM	TZTA-3M58MG	3.58	2	.28	.255	.191
324603CM	TZTA-4.00MG	4.0	2	.28	.255	.25
324611CM	TZTA-4.19MG	4.19	2	.38	.319	.239
324700CM	TZTT-4.19MG	4.19	3	.42	.355	.266
324620CM	TZTA-6.00MT	6.0	2	.28	.26	.195
324718CM	TZTT-6.00MT	6.0	3	.31	.284	.213

- Resonant resistance: 25Ω max.

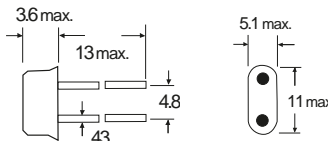
Part No.	Comparable to:	Freq. (MHz)	Pins	1	10	100
324638CM	TZTA-8.00MT	8.0	2	.28	.26	.195
324726CM	TZTT-8.00MT	8.0	3	.31	.284	.213
324558CM	TZTA-10.00MT	10.0	2	.28	.255	.191
324566CM	TZTA-12.00MT	12.0	2	.28	.255	.191
324654CM	TZTT-12.00MT	12.0	3	.31	.284	.213

- Resonant resistance: 55Ω max.

Part No.	Comparable to:	Freq. (MHz)	Pins	1	10	100
324574CM	TZTA-16.00MT	16.0	2	.28	.255	.191
324662CM	TZTT-16.00MT	16.0	3	.31	.285	.275
324582CM	TZTA-20.00MT	20.0	2	.28	.255	.25
324671CM	TZTT-20.00MT	20.0	3	.31	.285	.275

## HC49/S Case (Low Profile Crystals)

- Frequency range: 3.5 to 70.0MHz
- Operating temperature:  $-10^\circ\text{C}$  to  $+60^\circ\text{C}$
- Drive level: 0.5mW (fundamental frequency)
- Aging:  $\pm 5\text{ppm/year}$  max.
- Frequency stability tolerance:  $\pm 50\text{ppm}$



Part No.	Comparable:	Freq. (MHz)	Imped.	Max. Resist.	1	10
137816CM	CY3.57LP	3.579545	17pF	150Ω	.33	.247
137832CM	CY4LP	4.000	17pF	120Ω	.99	.89
137859CM	CY8LP	8.000	Series	60Ω	.63	.57
137875CM	CY11.05LP	11.0592	Series	50Ω	1.05	.81
137891CM	CY16LP	16.000	Series	40Ω	.35	.32



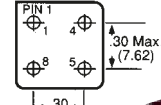
## TTL Oscillators (Half Can)

### Specifications:

- Input voltage:  $+5\text{VDC} \pm 0.5\text{VDC}$
- OSC series oscillators fit into a 14-pin DIP socket P/N133006CM, pg 94
- Frequency stability  $\pm 100\text{ppm}$
- Operating temperature:  $0^\circ\text{C}$  to  $70^\circ\text{C}$
- Output load TTL: 10 TTL max.



325497CM



Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC

Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	1	10	100
325500CM	3.579545	15mA	10ns	\$1.35	\$1.22	\$1.17
325518CM	3.6864	15mA	10ns	1.35	1.22	.92
325526CM	4.0	15mA	10ns	1.32	1.21	.90
325534CM	5.0688	15mA	10ns	1.32	1.21	.90
325542CM	6.0	15mA	10ns	1.32	1.21	.90
325551CM	6.144	15mA	10ns	1.32	1.21	.90
325569CM	8.0	30mA	10ns	1.32	1.21	.90
325577CM	9.216	30mA	10ns	1.32	1.21	.90
325585CM	9.8304	30mA	10ns	1.35	1.22	.92
354829CM	10.0	25mA	5ns	1.35	1.22	.92
325593CM	11.0592	30mA	10ns	1.35	1.22	.92
325606CM	12.0	30mA	10ns	1.35	1.22	1.17
325614CM	14.31818	30mA	10ns	1.35	1.22	.92
325622CM	16.0	30mA	10ns	1.35	1.22	.92
325631CM	16.257	30mA	10ns	1.35	1.22	.92
325649CM	18.432	30mA	10ns	1.35	1.22	1.17
325657CM	19.6608	30mA	10ns	1.35	1.22	.92
325665CM	20.0	30mA	10ns	1.35	1.22	.92
325673CM	25.0	70mA	5ns	1.35	1.22	.92
325681CM	28.322	70mA	5ns	1.35	1.22	.92
325690CM	30.0	46mA	5ns	1.35	1.22	.92
325702CM	32.0	70mA	5ns	1.35	1.22	.92
325711CM	32.514	70mA	5ns	1.35	1.22	.92
325729CM	40.0	70mA	5ns	1.41	1.29	.97
325737CM	48.0	70mA	5ns	1.35	1.22	.92
325745CM	64.0	70mA	5ns	1.35	1.22	1.10

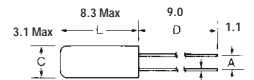
### Other Manufacturers

325462CM	1.0	15mA	10ns	\$1.35	\$1.22	\$ .96
325471CM	1.2288	15mA	10ns	1.20	1.09	.82
325489CM	1.8432	15mA	10ns	1.39	1.29	1.01
325497CM	2.0	25mA	5ns	1.21	1.10	.83
102779CM	10.0	45mA	6ns	1.45	1.31	1.04



## Tuning Fork

- Operating temperature range:  $-10^\circ\text{C}$  to  $+60^\circ\text{C}$
- Frequency tolerance:  $\pm 20\text{ppm}$
- Drive level: 1mw
- Aging for first year:  $\pm 3\text{ppm}$  (max.  $+25^\circ\text{C}$ )
- Frequency: 32.768kHz



Part No.	Comparable to:	Imped.	1	10	100	1000
14584CM	CY32.76	10.5pF	\$.89	\$.79	\$.69	\$.52
325243CM	JVP-325243	12.5pF	.23	.215	.185	.135

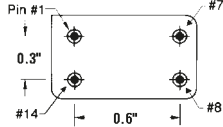
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## TTL Oscillators (Full Can)

### Specifications:

- Input voltage: +5VDC ±0.5VDC
- OSC series oscillators fit into a 14-pin DIP socket P/N 133006CM, pg 94
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.

**Quantity SAVE**



Pin #	Function
1	N/C
7	GND
8	Output
14	+5VDC



## TTL Oscillators (Full Can)

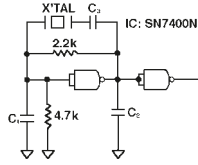
Part No.	Frequency (MHz)	Max. Input Current	Rise Fall Time	Pricing		
				1	10	100
325411CM	3.579545	15mA	10ns	\$1.19	\$1.08	<u>\$0.81</u>
325315CM	3.6864	15mA	10ns	1.25	1.15	<u>1.13</u>
354888CM	4.0	15mA	10ns	1.35	1.22	1.17
325374CM	4.9152	15mA	10ns	1.19	1.08	<u>.81</u>
325323CM	5.0	15mA	10ns	1.19	1.08	<u>.81</u>
325251CM	5.0688	15mA	10ns	1.19	1.08	<u>.81</u>
325260CM	6.0	15mA	10ns	1.19	1.08	<u>.81</u>
325278CM	6.144	15mA	10ns	1.19	1.08	<u>.81</u>
325358CM	7.3728	15mA	10ns	1.19	1.09	1.03
354896CM	8.0	30mA	10ns	1.35	1.22	<u>.92</u>
325331CM	9.216	30mA	10ns	1.19	1.08	<u>.81</u>
325366CM	9.8304	30mA	10ns	1.19	1.08	<u>.81</u>
354909CM	10.0	30mA	10ns	1.19	1.15	1.03
354870CM	11.0592	30mA	10ns	1.35	1.22	<u>.92</u>
354837CM	14.31818	30mA	—	1.19	1.09	1.03
354845CM	16.0	30mA	10ns	1.35	1.22	1.17
325286CM	16.257	30mA	10ns	1.19	1.08	<u>.81</u>
325340CM	18.0	30mA	10ns	1.19	1.08	<u>.81</u>
325382CM	18.432	30mA	10ns	1.19	1.08	<u>.81</u>
325446CM	19.6608	30mA	10ns	1.19	1.08	<u>.81</u>
354917CM	20.0	30mA	10ns	1.35	1.22	1.17
325391CM	24.0	70mA	10ns	1.19	1.08	<u>.81</u>
325454CM	25.0	70mA	5ns	1.19	1.08	<u>.81</u>
325403CM	28.322	70mA	5ns	1.19	1.08	<u>.81</u>
325438CM	30.0	70mA	5ns	1.19	1.08	<u>.81</u>
325294CM	35.0	70mA	5ns	1.19	1.08	<u>.81</u>
354861CM	40.0	70mA	5ns	1.35	1.22	<u>.92</u>
354853CM	50.0	70mA	5ns	1.35	1.22	<u>.92</u>

### Other Manufacturers

27861CM	1.0	7mA	15ns	\$2.49	\$2.20	\$1.43
325307CM	1.2288	15mA	10ns	1.07	.97	<u>.73</u>
27879CM	1.8432	7mA	15ns	2.39	2.15	1.95
27924CM	2.0	7mA	15ns	1.99	1.79	1.59
27967CM	4.0	7mA	10ns	1.99	1.79	1.59
27991CM	8.0	15mA	15ns	1.99	1.79	1.59
27887CM	10.0	15mA	10ns	1.99	1.79	1.59
144207CM	11.0592	50mA	10ns	1.25	1.13	<u>.90</u>
27895CM	12.0	15mA	10ns	1.31	1.21	<u>.98</u>
108652CM	14.31818	15mA	10ns	1.29	1.13	1.02
27908CM	16.0	15mA	10ns	1.25	1.12	<u>.84</u>
27932CM	20.0	17mA	10ns	1.79	1.61	<u>1.21</u>
27941CM	32.0	18mA	7ns	1.31	1.21	1.11
76822CM	33.0	18mA	6ns	1.99	1.79	1.59
153226CM	40.0	18mA	6ns	1.05	.96	<u>.87</u>
76831CM	50.0	25mA	6ns	1.25	1.13	1.02
325420CM	66.666	70mA	5ns	1.19	1.08	1.03
76857CM	100.0	25mA	3ns	2.49	2.25	1.95

## Crystals

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Shunt capacitance: 7pF maximum
- Frequency stability tolerance: ±50ppm from -10°C to +60°C



Application Reference (4-14MHz) (parallel resonance)

C1: 150-470 pF  
 C2: 220-820 pF  
 C3: Match crystal impedance

### HC33/U Case

Part No.	Frequency (MHz)	Impedance	Pricing		
			1	10	100
14349CM	1.0	13pF	\$4.95	\$4.46	<u>\$3.35</u>

Part No.	Frequency (MHz)	Impedance	Pricing		
			1	10	100
324224CM	1.8432	13pF	.95	.86	<u>.64</u>
324283CM	2.0	Series	.94	.85	<u>.64</u>
324275CM	2.0	20pF	.94	.85	<u>.64</u>
324312CM	2.5	Series	.78	.71	<u>.53</u>
324321CM	3.0	Series	.78	.71	<u>.53</u>
324347CM	3.6864	18pF	.31	.284	<u>.213</u>
324363CM	4.032	Series	.31	.284	<u>.274</u>
324355CM	4.032	20pF	.31	.284	<u>.213</u>
324371CM	4.194	12pF	.31	.284	<u>.213</u>
324401CM	4.9152	Series	.31	.284	<u>.213</u>
324380CM	4.9152	20pF	.31	.284	<u>.213</u>
324427CM	5.0	Series	.31	.284	<u>.213</u>
324419CM	5.0	20pF	.31	.284	<u>.213</u>
324435CM	5.0688	20pF	.31	.284	<u>.213</u>
324443CM	5.185	32pF	.31	.284	<u>.213</u>
324460CM	6.0	Series	.31	.284	<u>.213</u>
324451CM	6.0	32pF	.31	.284	<u>.213</u>
324478CM	6.5536	12pF	.31	.284	<u>.213</u>
324486CM	7.68	20pF	.31	.284	<u>.213</u>
324494CM	8.0	18pF	.31	.284	<u>.213</u>
324507CM	8.0	20pF	.31	.284	<u>.274</u>
324515CM	8.0	32pF	.31	.284	<u>.213</u>
324531CM	9.216	Series	.31	.284	<u>.213</u>

### Other Manufacturers

102613CM	1.8432	18pF	.99	.91	<u>.68</u>
102621CM	2.0	Series	.78	.75	<u>.73</u>
101274CM	2.4576	32pF	.64	.525	<u>.49</u>
14525CM	3.2768	18pF	.63	.57	<u>.50</u>
14533CM	3.579545	18pF	.40	.37	<u>.29</u>
14568CM	3.6864	18pF	.28	.256	<u>.23</u>
14592CM	4.0	20pF	.59	.54	<u>.41</u>
14621CM	4.9152	Series	.28	.256	<u>.23</u>

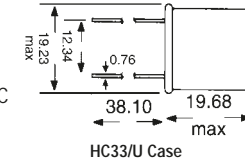
### HC49/US Low Profile Case

324988CM	3.6864	18pF	.36	.324	<u>.243</u>
324961CM	4.0	20pF	.36	.325	<u>.31</u>
324937CM	4.096	20pF	.36	.324	<u>.243</u>
324929CM	5.0	20pF	.36	.324	<u>.243</u>
324831CM	7.3728	20pF	.36	.325	<u>.31</u>
324822CM	7.3728	20pF	.62	.57	<u>.43</u>
324814CM	7.68	20pF	.36	.324	<u>.243</u>
324806CM	8.0	18pF	.36	.324	<u>.243</u>
324785CM	8.0	20pF	.36	.324	<u>.243</u>
324777CM	8.0	32pF	.36	.324	<u>.243</u>
324742CM	9.216	Series	.36	.324	<u>.243</u>
324734CM	9.8304	20pF	.36	.324	<u>.243</u>
325227CM	11.0592	20pF	.36	.324	<u>.243</u>

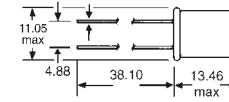
† Industrial temperature range (-40°C to 85°C)

# Oscillators & Crystals

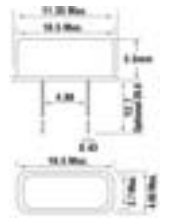
**Quantity SAVE**



Dimensions in millimeters



HC49/U (HC18/U) Case



HC49/US Low Profile Case

### HC49/U (HC18/U) Case (Continued)

Part No.	Frequency (MHz)	Impedance	Pricing		
			1	10	100
324523CM	9.216	20pF	.31	.284	<u>.213</u>
324540CM	9.9304	20pF	.31	.284	<u>.213</u>
324128CM	11.0592	Series	.31	.284	<u>.213</u>
324110CM	11.0592	32pF	.31	.284	<u>.274</u>
324136CM	11.52	Series	.31	.284	<u>.213</u>
324144CM	11.98135	Series	.31	.284	<u>.213</u>
324152CM	12.288	20pF	.31	.284	<u>.249</u>
324161CM	13.5168	Series	.31	.284	<u>.213</u>
324179CM	14.31818	Series	.31	.284	<u>.213</u>
324187CM	14.7456	20pF	.31	.284	<u>.213</u>
324195CM	14.7456	Series	.31	.284	<u>.213</u>
324208CM	16.0	20pF	.31	.284	<u>.213</u>
324216CM	18.0	20pF	.31	.284	<u>.213</u>
324232CM	18.432	20pF	.31	.284	<u>.274</u>
324241CM	19.6608	20pF	.31	.284	<u>.213</u>
324259CM	19.6608	Series	.31	.284	<u>.213</u>
324267CM	20.0	20pF	.31	.284	<u>.274</u>
324304CM	22.1184	Series	.31	.284	<u>.213</u>
324339CM	35.2512	18pF	.31	.284	<u>.213</u>
324398CM	49.86	20pF	.31	.284	<u>.213</u>

### Other Manufacturers

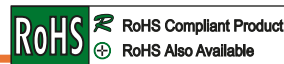
14681CM	6.0	18pF	.28	.256	<u>.23</u>
14699CM	6.144	30pF	.28	.256	<u>.23</u>
539743CM	6.176	18pF	.28	.26	<u>.24</u>
14710CM	7.3728	30pF	.28	.256	<u>.23</u>
14728CM	8.0	Series	.67	.59	<u>.52</u>
14381CM	10.0	Series	.79	.69	<u>.59</u>
120061CM	11.0592	Series	.80	.71	<u>.68</u>
14402CM	12.0	Series	.80	.68	<u>.50</u>
537799CM	14.31818	Series	.28	.26	<u>.24</u>
14453CM	16.0	Series	.68	.61	<u>.458</u>
14517CM	20.0	Series	.79	.69	<u>.59</u>

### HC49/US Low Profile Case (Cont.)

325219CM	11.0592	32pF	.36	.324	<u>.243</u>
325201CM	12.0	20pF	.36	.325	<u>.31</u>
325198CM	12.0	20pF	.62	.57	<u>.43</u>
325180CM	12.0	32pF	.36	.324	<u>.243</u>
325171CM	12.288	20pF	.36	.323	<u>.242</u>
325121CM	16.0	20pF	.62	.57	<u>.43</u>
325112CM	18.432	20pF	.36	.324	<u>.243</u>
325104CM	18.432	20pF	.62	.57	<u>.43</u>
325067CM	20.0	20pF	.36	.325	<u>.31</u>
325059CM	20.0	20pF	.62	.57	<u>.43</u>
325024CM	24.0	20pF	.62	.57	<u>.43</u>
325016CM	24.576	20pF	.36	.324	<u>.243</u>
325008CM	25.0	18pF	.36	.324	<u>.243</u>



# Component Cabinet Kits



**Kits Include the Most Popular Components and a Cabinet with Extra Drawers for Your Customized Expansion**

Each kit includes a 20-drawer component cabinet (319599CM), 20 clear plastic drawers (319601CM), 20 clear dividers (319610CM), 30 adhesive labels for drawers to identify parts in kit, and all the electronic components listed in each kit.



81875CM (Capacitor Kit)

20-drawer component cabinet with every kit!

- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Cabinet: ABS-Black
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit; each type is separately packaged.



81832CM (Resistor Kit)

Need a refill? Just call 1-800-831-4242

## Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 values)  $\pm 20\%$  Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100 $\mu$ F @ 50V	1000 $\mu$ F @ 16V	1 $\mu$ F @ 50V	3.3 $\mu$ F @ 50V	22 $\mu$ F @ 50V
220 $\mu$ F @ 25V	2200 $\mu$ F @ 25V	1 $\mu$ F @ 100V	4.7 $\mu$ F @ 50V	47 $\mu$ F @ 50V
470 $\mu$ F @ 25V	3300 $\mu$ F @ 25V	2.2 $\mu$ F @ 50V	10 $\mu$ F @ 50V	100 $\mu$ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81867CM	240 pcs. Radial Capacitor kit	5.3	\$29.95	\$26.95
130331CM	Refill for 81867CM (240 pcs.)	0.5	17.95	16.49

## Axial Electrolytic Capacitor Kit

Includes 140 pcs. (10 values)  $\pm 20\%$  Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47 $\mu$ F @ 50V	220 $\mu$ F @ 50V	1000 $\mu$ F @ 25V	1 $\mu$ F @ 50V	10 $\mu$ F @ 50V
100 $\mu$ F @ 50V	470 $\mu$ F @ 50V	2200 $\mu$ F @ 16V	4.7 $\mu$ F @ 50V	2.2 $\mu$ F @ 50V
Part No.	Description	Wt. (lbs.)	1	10
81875CM	140 pcs. Axial Capacitor kit	5.3	\$37.95	\$34.15
130340CM	Refill for 81875CM (140 pcs.)	0.6	24.95	22.49

## Mylar Capacitor Kit

Includes 280 pcs. (10 values) 100V  $\pm 10\%$  Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001 $\mu$ F	.022 $\mu$ F	.047 $\mu$ F	.47 $\mu$ F	.01 $\mu$ F
.0047 $\mu$ F	.033 $\mu$ F	.22 $\mu$ F	1 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
81883CM	280 pcs. Mylar Capacitor kit	5.1	\$37.95	\$34.15
130358CM	Refill for 81883CM (280 pcs.)	0.3	19.95	17.95

## Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 values)  $\pm 20\%$  Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1 $\mu$ F @ 35V	1 $\mu$ F @ 25V	3.3 $\mu$ F @ 35V	10 $\mu$ F @ 16V	22 $\mu$ F @ 16V
.22 $\mu$ F @ 35V	1 $\mu$ F @ 35V	4.7 $\mu$ F @ 35V	10 $\mu$ F @ 35V	33 $\mu$ F @ 25V
.47 $\mu$ F @ 35V	2.2 $\mu$ F @ 16V	6.8 $\mu$ F @ 35V	15 $\mu$ F @ 25V	47 $\mu$ F @ 25V
Part No.	Description	Wt. (lbs.)	1	10
81841CM	150 pcs. Tantalum Capacitor kit	4.8	\$79.95	\$71.95
130260CM	Refill for 81841CM (150 pcs.)	0.3	59.95	53.95

## Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 values) 50V  $\pm 20\%$  Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pF	47pF	470pF	.022 $\mu$ F	.01 $\mu$ F
22pF	100pF	.001 $\mu$ F	.047 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
81859CM	520 pcs. Ceramic Capacitor kit	5.0	\$35.95	\$32.35
130232CM	Refill for 81841CM (520 pcs.)	0.3	17.95	16.49

## Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 values) 50V  $\pm 20\%$  Monolithic Ceramic Capacitors

10 each	10 each	10 each	10 each	100 each
22pF	.001 $\mu$ F	.047 $\mu$ F	.47 $\mu$ F	.01 $\mu$ F
100pF	.0022 $\mu$ F	.22 $\mu$ F	1 $\mu$ F	.1 $\mu$ F
Part No.	Description	Wt. (lbs.)	1	10
171475CM	280 pcs. Monolithic Capacitor kit	5.0	\$29.95	\$26.95
171483CM	Refill for 171475CM (280 pcs.)	0.3	17.95	15.95

## 1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/8-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		
Part No.	Description			Wt. (lbs.)	1	10	
108329CM	540 pcs. 1/8-watt Resistor kit			4.9 .....	\$24.95		\$22.49
108302CM	Refill for 108329CM (540 pcs.)⊕			0.2 .....	12.95		11.49

## 1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/4-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.2kΩ	2.7kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	1.5kΩ	3.3kΩ	20kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2kΩ	5.1kΩ	22kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.2kΩ	5.6kΩ	33kΩ	10MΩ		
Part No.	Description			Wt. (lbs.)	1	10	
81832CM	540 pcs. 1/4-watt Resistor kit			4.9 .....	\$27.95		\$24.95
103165CM	Refill for 81832CM (540 pcs.)			0.2 .....	12.95		11.49

## 1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 values) 1/2-watt 5% Resistors

10 each	10 each	10 each	10 each	10 each	10 each	50 each	50 each
10Ω	330Ω	1.5kΩ	3.3kΩ	15kΩ	47kΩ	100Ω	4.7kΩ
47Ω	390Ω	2kΩ	5.1kΩ	22kΩ	470kΩ	220Ω	10kΩ
150Ω	470Ω	2.2kΩ	5.6kΩ	27kΩ	1MΩ	1kΩ	100kΩ
270Ω	680Ω	2.7kΩ	6.8kΩ	33kΩ	10MΩ		
Part No.	Description				Wt. (lbs.)	1	10
107879CM	540 pcs. 1/2-watt Resistor kit				5.1 .....	\$29.95	\$26.95
107852CM	Refill for 107879CM (540 pcs.)Ⓢ				0.4 .....	14.95	13.49

## 1/2-Watt Single Turn Cermet Pot Kit

See page 85 (63P Series) for photos and specs.

Includes 100 pcs. (10 values) 1/2-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500 $\Omega$	63P2k $\Omega$	63P10k $\Omega$	63P50k $\Omega$	63P500k $\Omega$
63P1k $\Omega$	63P5k $\Omega$	63P20k $\Omega$	63P100k $\Omega$	63P1M $\Omega$
Part No.	Description	Wt. (lbs.)	1	10
85032CM	100 pcs. single turn Pot kit	4.9	\$65.95	\$59.35

## 3/4-Watt 15 Turn Cermet Pot Kit

See page 85 (43P Series) for photos and specs.

Includes 100 pcs. (10 values) 3/4-watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500 $\Omega$	43P2k $\Omega$	43P10k $\Omega$	43P50k $\Omega$	43P500k $\Omega$
43P1k $\Omega$	43P5k $\Omega$	43P20k $\Omega$	43P100k $\Omega$	43P1M $\Omega$
Part No.	Description	Wt. (lbs.)	1	10
85041CM	100 pcs. 15 turn Pot kit	4.9	\$82.95	\$74.65

Our goal is to provide you with more of what you want.  
Let us know how we can better serve your electronics needs.  
Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

## Belden Coaxial Cables



Compare Belden coaxial cables with those from the other companies who produce them and you will discover the obvious: Belden has no equal. That's because Belden coaxial cables are time-tested for performance, performance that guarantees outstanding value. Belden guarantees this level of performance because every cable is tested with equipment that simulates every known environmental and electrical performance condition. As a result, Belden coaxial cable can be counted on for positive, reliable, and trouble-free operation. Engineered in a wide selection of sizes and materials, with each offering the benefits needed for physical, electrical and cost-requirement applications. Cable choices include broadband, standard analog, precision video for analog and digital, and more. For our complete line of Belden products, please visit [www.Jameco.com/Belden](http://www.Jameco.com/Belden).

### 50Ω Transmission and Computer Cable RG8/X & RG8/U Type

16 AWG stranded (19x29) .058" bare copper RG8/X type

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 81.4pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: 0.242" • Color: black

Part No.	Product No.	Description	1	5	10
734255CM	9258-100-10	100' reel	\$59.99	\$54.99	\$49.99
734257CM	9258-500-10	500' reel	346.55	314.47	298.73
734256CM	9258-1000-10	1000' reel	601.15	559.17	538.20
734259CM	9258-U500-10	500' unreel box	357.05	324.01	307.79
734258CM	9258-U1000-10	1000' unreel box	619.35	576.12	554.52

13 AWG stranded (7 x 21) .085" bare copper RG8/U type

- 97% bare copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 93.5pF/m • Nominal impedance: 52Ω
- Nominal outer diameter: .405" • Color: black

Part No.	Product No.	Description	1	5	10
732849CM	8237-100-10	100' reel	\$166.05	\$151.09	\$138.36
732857CM	8237-500-10	500' reel	629.09	571.86	549.03
732865CM	8237-1000-10	1000' reel	1,135.85	1,041.29	961.12

11 AWG stranded (7 x 19) .108" bare copper RG8/U type

- Nominal outer diameter: .285" • Color: black
- Foam polyethylene insulation & black PVC jacket • 97% bare copper braid shield
- Nominal capacitance: 85.3pF/m • Nominal impedance: 50Ω

Part No.	Product No.	Description	1	5	10
732751CM	8214-100-10	100' reel	\$178.55	\$162.30	\$148.77
732769CM	8214-500-10	500' reel	780.65	709.66	650.05
732777CM	8214-1000-10	1000' reel	1,303.55	1,203.17	1,117.27

### 50Ω Transmission and Computer Cable RG58A/U Type

20 AWG solid .032" bare copper

- Nominal outer diameter: .193" • Color: black
- Polyethylene insulation and black PVC jacket
- 95% tinned copper braid shield
- Nominal capacitance: 93.5pF/m • Nominal impedance: 51.5Ω

Part No.	Product No.	Description	1	5	10
732873CM	8240-100-10	100' reel	\$42.15	\$38.21	\$34.73
732882CM	8240-500-10	500' reel	166.75	151.50	138.88
732900CM	8240-1000-10	1000' reel	358.25	328.38	303.14
734176CM	8240-U500-10	500' unreel box	202.99	184.17	142.57
734175CM	8240-U1000-10	1000' unreel box	333.29	302.42	287.33

20 AWG stranded (19 x 33) .035" tinned copper

- 95% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m • Nominal impedance: 50Ω
- Nominal outer diameter: .192" • Color: black

Part No.	Product No.	Description	1	5	10
732937CM	8259-100-10	100' reel	\$50.65	\$45.93	\$41.73
732945CM	8259-500-10	500' reel	152.09	131.49	119.45
732953CM	8259-1000-10	1000' reel	274.79	251.89	232.49

20 AWG stranded (19 x 32) .037" tinned copper

- 96% tinned copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 86.9pF/m • Nominal impedance: 53.5Ω
- Nominal outer diameter: .194" • Color: black

Part No.	Product No.	Description	1	5	10
732814CM	8219-100-10	100' reel	\$39.99	\$37.49	\$34.99
732822CM	8219-500-10	500' reel	257.99	234.47	214.89
732831CM	8219-1000-10	1000' reel	329.49	302.05	278.79

### 50Ω Transmission and Computer Cable RG174/U Type

26 AWG stranded (7 x 34) .019" bare copper-covered steel

- 90% tinned copper braid shield
- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 101pF/m
- Nominal impedance: 50Ω
- Nominal outer diameter: .110" • Color: black

Part No.	Product No.	Description	1	5	10
732785CM	8216-100-10	100' reel	\$35.45	\$32.18	\$29.23
732793CM	8216-500-10	500' reel	114.19	103.64	94.16
732806CM	8216-1000-10	1000' reel	278.85	263.29	250.13

### 93Ω Coax Cable RG62A/U Type

22 AWG solid 0.025" bare copper-covered steel

- Insulation: semi-solid PE (polyethylene) 0.146" diameter
- Outer shield: braid bare copper 95% coverage
- Outer jacket: HDPE (high density polyethylene)
- Nominal impedance: 93Ω
- Tracer: solid 0.242" diameter • Color: black
- Nominal inductance: 0.116μH/ft. • Nominal capacitance: 13.5pF/ft.
- Nominal DCR: 41.2Ω/1000' • Max. operating voltage (non-UL): 300Vrms

Part No.	Product No.	Description	1	5	10
447849CM	9228-010-500	500' reel	\$173.35	\$164.65	\$156.45

### 75Ω Broadband Coax CATV Cable RG6/U Type

18 AWG solid .040" bare copper-covered steel

- Duobond® II +60% aluminum braid shield
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .270" • Color: black

Part No.	Product No.	Description	1	5	10
733270CM	9116-100-10	100' reel	\$20.89	\$17.56	\$16.68
733278CM	9116-500-10	500' reel	65.55	57.37	54.50
733286CM	9116-1000-10	1000' reel	119.45	113.48	107.80
447831CM	9116-U500-010	500' unreel box	55.59	51.11	48.55
447822CM	9116-U1000-010	1000' unreel box	<del>\$93.29</del> 80.79	74.99	71.73

18 AWG solid .040" bare copper-covered steel

- Duobond® IV quad shield
- Nominal outer diameter: .298"
- Gas injected foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω • Color: black

Part No.	Product No.	Description	1	5	10
732734CM	1189A-100-10	100' reel	\$23.99	\$20.14	\$18.13
733403CM	1189A-500-10	500' reel	83.99	67.87	64.48
732742CM	1189A-1000-10	1000' reel	183.45	174.27	165.55
734053CM	1189A-U500-10	500' unreel box	100.99	81.61	77.53
447110CM	1189A-U1000-10	1000' unreel box	<del>\$136.95</del> 117.89	107.96	102.83

### Serie 59 MATV Cable

20 AWG solid 0.032 bare copper covered steel

- Insulation: gas-injected FPE (foam polyethylene 0.144" diameter)
- Outer shield: Duobond® II tape/braid 40% coverage
- Outer jacket: PVC
- UL1685 flame test • Color: black
- Nominal impedance: 75Ω • Nominal inductance: 0.097μH/ft.
- Nominal capacitance: 16.2pF/ft. • Nominal DCR: 44.5Ω / 1000'

Part No.	Product No.	Description	1	5	10
447806CM	9100-010-U1000	1000' unreel	\$68.65	\$64.99	\$60.92

▲ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## Belden Coaxial Cables (Continued)

### Precision Video Cable for Analog and Digital RG6 Type

#### 18 AWG solid .040" bare copper

- Gas injected foam HDPE insulation, PVC jacket
- Nominal capacitance: 53.1pF/m • Nominal impedance: 75Ω
- DuoFoil® +95% tinned copper braid shield • Nominal outer diameter: .275"

Part No.	Product No.	Description	1	5	10
734100CM	1694A-100-10	100' reel (black)	\$66.49	\$55.86	\$53.07
734156CM	1694A-500-10	500' reel (black)	234.89	191.33	177.23
734155CM	1694A-1000-10	1000' reel (black)	488.39	396.49	382.18
447267CM	1694A-1000-06	1000' reel (blue)	<del>\$465.85</del> 433.79	388.73	331.84
447275CM	1694A-1000-08	1000' reel (gray)	<del>\$362.45</del> 325.95	309.63	301.20

### Direct Broadcast Satellite RG6 Type Cable

#### 18 AWG solid .040" bare copper

- DuoBond® II +60% aluminum braid • Color: black
- Gas injected foam polyethylene insulation, PVC jacket
- Nominal capacitance: 16.2pF/m • Nominal impedance: 75Ω

Part No.	Product No.	Description	1	5	10
734157CM	1829AC-100-10	100' reel	\$14.99	\$13.99	\$12.99
734178CM	1829AC-500-10	500' reel	54.99	52.24	49.63
734158CM	1829AC-1000-10	1000' reel	123.25	110.88	105.34
447312CM	1829A-U1000-010	1000' unreel box	<del>\$96.09</del> 82.59	79.99	73.28

### 75Ω Standard Analog Video Cable RG59/U Type

#### 23 AWG solid .023" bare copper

- 95% bare copper braid shield
- Polyethylene insulation and black PVC jacket • Nominal outer diameter: .242"
- Nominal capacitance: 67.3pF/m • Nominal impedance: 75Ω • Color: black

Part No.	Product No.	Description	1	5	10
732902CM	8241-100-10	100' reel	\$53.75	\$50.46	\$46.52
732911CM	8241-500-10	500' reel	141.55	132.81	122.47
732929CM	8241-1000-10	1000' reel	224.15	214.17	205.39
447478CM	8241-U500-10	500' unreel box	100.49	92.32	85.08
447460CM	8241-U1000-10	1000' unreel box	<del>\$222.89</del> 199.15	183.07	167.67

#### 22 AWG stranded (7 x 30) .030" bare copper

- 95% bare copper braid shield
- Foam polyethylene insulation and black PVC jacket
- Nominal capacitance: 56.7pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .241" • Color: black

Part No.	Product No.	Description	1	5	10
732654CM	9259-100-10	100' reel	\$56.79	\$53.04	\$48.86
732662CM	9259-500-10	500' reel	156.55	142.23	139.40
732671CM	9259-1000-10	1000' reel	383.19	369.43	350.45
734071CM	9259-U500-10	500' unreel box	196.85	178.84	175.29
734070CM	9259-U1000-10	1000' unreel box	383.19	369.43	350.45

### Broadband Coax (Headend/Video Cables)

#### 20 AWG solid .031" bare copper

- Nominal capacitance 68.9pF/m • Color: black
- Nominal outer diameter: .305" • Nominal impedance: 75Ω
- 98% tinned copper double braid shield • Polyethylene insulation and jacket

Part No.	Product No.	Description	1	5	10
732962CM	8281-100-10	100' reel	\$85.49	\$72.06	\$68.46
732980CM	8281-500-10	500' reel	483.25	414.18	372.43
732988CM	8281-1000-10	1000' reel	906.39	773.15	739.32

### 50Ω RG58A/U Ethernet Coax (Thinnet 10 Base2 Ethernet)

#### 20 AWG stranded (19 x 32) tinned copper, plenum

- Insulation: FFEP (foam fluorinated ethylene propylene, 0.095" diameter)
- Outer shield: DuoBond® II tape/braid 93% coverage
- NFPA 262 UL flame test
- Color: light gray
- Outer jacket: PVDF (fluorocopolymer) • IEEE802.3 10Base2 specification
- Nominal impedance: 50Ω • Nominal capacitance: 25.4pF/ft.
- Nominal inductance: 0.0635μH/ft. • Nominal DCR: 8.8Ω/1000'

Part No.	Product No.	Description	1	5	10
426001CM	89907-E4X-1000	1000' reel	\$435.05	\$413.25	\$380.82



## Belden Coaxial Cables (Continued)

### RG59 Type Security Coaxial Cable

#### 20 AWG solid bare copper conductor

- 95% bare copper braid shield • Nominal impedance: 75Ω
- Foam polyolefin insulation and black UV resistant PVC jacket
- Impregnated with CoreGuard® flame retardant flooding compound
- Shielded or flooded for use in underground ducts
- Surveillance and CCTV applications • Color: black

Part No.	Product No.	Description	1	5	10
734159CM	543945-100-10	100' reel	\$15.45	\$15.35	\$15.25
734161CM	543945-500-10	500' reel	64.95	61.98	58.92
734160CM	543945-1000-10	1000' reel	139.99	132.27	125.66

### Standard Analog Video Cable 75Ω Miniature Coax

#### 27 AWG stranded (7x35) .017" bare copper-covered steel

- Polyethylene insulation and black PVC jacket
- Nominal capacitance: 67.3pF/m • Color: black
- Nominal impedance: 75Ω • Nominal outer diameter: .100"

Part No.	Product No.	Description	1	5	10
734174CM	8218-U500-10	500' unreel box	\$217.09	\$196.96	\$178.98
734173CM	8218-U1000-10	1000' unreel box	534.15	484.61	460.38

#### 20 AWG solid .032" solid bare copper

- Duofoil® +95% tinned copper braid shield
- Gas injected foam HDPE insulation and PVC jacket
- Nominal capacitance: 53.5pF/m • Nominal impedance: 75Ω
- Nominal outer diameter: .234" • Color: black

Part No.	Product No.	Description	1	5	10
734087CM	1505A-100-10	100' reel	\$51.05	\$42.89	\$40.75
734089CM	1505A-500-10	500' reel	214.35	174.59	173.96
734088CM	1505A-1000-10	1000' reel	435.29	359.73	358.14



## Belden Speaker Cables

These speaker cables are used to connect receivers or power amplifiers to speakers & are also used for the internal wiring of the speakers. Belden speaker cables utilize only high-conductivity copper produced by a process called Electrolytic Tough Pitch (ETP). This refining process produces a conductor that is 99.95% pure copper resulting in high-conductivity per ASTM B115.

### Electrolytic Tough Pitch (ETP) High Conductivity Copper Speaker Cables

- 2-conductor stranded • Clear PVC jacket
- Parallel (1) tinned (1) bare • PVC insulation

#### 18 AWG stranded (16 x 30)

Part No.	Product No.	Description	1	5	10
732574CM	9708-100-368	100' reel	\$27.15	\$24.65	\$22.59
732582CM	9708-500-368	500' reel	122.95	116.45	109.99
732591CM	9708-1000-368	1000' reel	283.55	270.87	259.77
734154CM	9708-U500-368	500' unreel box	181.95	172.33	162.77
734081CM	9708-U1000-368	1000' unreel box	339.85	324.70	311.39

#### 14 AWG stranded (19 x 27)

Part No.	Product No.	Description	1	5	10
732603CM	9717-100-368	100' reel	\$65.49	\$55.09	\$49.45
733430CM	9717-500-368	500' reel	255.69	242.25	218.04
732612CM	9717-1000-368	1000' reel	539.85	509.72	458.88

#### 12 AWG stranded (65 x 30)

Part No.	Product No.	Description	1	5	10
732630CM	9718-100-368	100' reel	\$126.35	\$106.13	\$100.82
732638CM	9718-500-368	500' reel	405.25	358.42	310.77
732646CM	9718-1000-368	1000' reel	1,341.25	1,262.34	1,183.44



## Belden Ribbon Cable

### 9L28014 - 0.50" Pitch

- 28 AWG (7 x 36) tinned copper • PVC insulation

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Ribbon Cable Offering at [www.Jameco.com/Prod/BeldenRibbon](http://www.Jameco.com/Prod/BeldenRibbon)

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Belden cable products are manufactured in a variety of gauge sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including PVC, Plenum and High-Temperature versions to meet the technical requirements of many different types of systems. Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than other multi-conductor cables. For our complete line of Belden products, please visit [www.jameco.com/Belden](http://www.jameco.com/Belden).

- Chrome PVC jacket
- Tinned copper
- Twisted pairs
- Tinned copper drain wire
- Overall 100% BELDFOIL® shield (for shielded cables)

### High-Temperature Control, Instrumentation Cables and Computer Cables

**24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire**

- Semi-rigid PVC insulation
- Nominal DCR: 24Ω/m
- Nominal impedance: 75Ω
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
732710CM	9501-100-60	1	100' reel	\$23.85	\$21.64	\$19.68
732718CM	9501-500-60	1	500' reel	92.05	87.14	82.31
732726CM	9501-1000-60	1	1000' reel	174.35	164.62	152.71
734074CM	9501-U500-60	1	500' unreel box	108.79	103.00	97.29
734073CM	9501-U1000-60	1	1000' unreel box	166.15	156.86	147.62
732452CM	9502-100-60	2	100' reel	27.39	24.92	22.64
732470CM	9502-500-60	2	500' reel	140.39	127.60	116.96
732478CM	9502-1000-60	2	1000' reel	283.49	259.90	239.88
734076CM	9502-U500-60	2	500' unreel box	155.99	141.75	129.94
734075CM	9502-U1000-60	2	1000' unreel box	199.99	189.59	175.89
732486CM	9503-100-60	3	100' reel	37.35	31.72	29.51
732494CM	9503-500-60	3	500' reel	137.99	130.72	123.48
732507CM	9503-1000-60	3	1000' reel	261.45	246.93	229.06
734078CM	9503-U500-60	3	500' unreel box	226.39	214.44	202.58
734077CM	9503-U1000-60	3	1000' unreel box	408.35	385.65	366.38
732515CM	9504-100-60	4	100' reel	32.99	27.95	27.15
732523CM	9504-500-60	4	500' reel	168.69	159.79	150.92
732532CM	9504-1000-60	4	1000' reel	415.15	392.05	381.85
732550CM	9505-100-60	5	100' reel	45.49	36.85	34.28
732558CM	9505-500-60	5	500' reel	192.25	174.78	160.19
732566CM	9505-1000-60	5	1000' reel	370.55	339.72	313.56
734079CM	9505-U500-60	5	500' unreel box	311.25	294.84	278.43
734080CM	9505-U1000-60	5	1000' unreel box	589.69	556.87	529.03

### Low Capacitance Computer Cables

**24 AWG stranded (7 x 32) shielded with 24 AWG stranded TC drain wire**

- Datalene® insulation, chrome PVC jacket
- Nominal DCR: 24Ω/m
- Nominal impedance: 100Ω
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
734179CM	1419A-100-60	2	100' reel	\$24.99	\$22.49	\$19.99
734086CM	1419A-500-60	2	500' reel	144.05	131.99	113.03
734085CM	1419A-1000-60	2	1000' reel	264.55	242.43	223.76
447128CM	1422A-060-500	5	500' reel	190.95	174.99	155.27

### Audio, Control, and Instrumentation Cables Non-Plenum

**22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire**

- Polypropylene insulation
- Paper wrap
- Black PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: 0.138"



Part No.	Product No.	No. of Pairs	Description	1	5	10
733112CM	8451-100-10	1	100' reel (black)	\$19.99	\$18.59	\$16.99
733121CM	8451-500-10	1	500' reel (black)	113.65	103.31	94.69
733139CM	8451-1000-10	1	1000' reel (black)	202.85	185.95	171.62
734063CM	8451-U500-10	1	500' unreel box (black)	113.65	103.31	94.69
734062CM	8451-U1000-10	1	1000' unreel box (blk)	202.85	185.95	171.62
447531CM	8451-U1000-08	1	1000' unreel box (gray)	202.85	185.95	171.62

▲ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

### Audio, Control, and Instrumentation Cables Non-Plenum (Cont'd)

**22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire**

- Polypropylene insulation
- PVC jacket
- Nominal capacitance: 111pF/m
- Nominal outer diameter: 0.135"
- Color: gray



Part No.	Product No.	No. of Pairs	Description	1	5	10
732689CM	9451-100-08	1	100' reel	\$24.99	\$22.49	\$19.99
732697CM	9451-500-08	1	500' reel	92.85	82.50	75.28
733412CM	9451-T1000-08	1	1000' reel	147.99	143.13	135.97
447881CM	9451-U1000-10	1	1000' unreel box	153.29	152.00	147.26

**22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire**

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.175"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
734191CM	8761-500-60	1	500' reel	\$112.05	\$101.59	\$92.33
734190CM	8761-1000-60	1	1000' reel	285.35	261.58	241.45
734193CM	8761-U500-60	1	500' unreel box	150.25	134.42	126.51
734192CM	8761-U1000-60	1	1000' unreel box	271.49	232.42	221.41

**22 AWG stranded (7 x 30) shielded with 24 AWG stranded TC drain wire**

- Polypropylene insulation
- Nominal capacitance: 115pF/m
- Nominal outer diameter: 0.168"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
734180CM	8723-100-60	2	100' reel	\$30.19	\$27.17	\$24.15
734182CM	8723-500-60	2	500' reel	114.15	103.55	94.09
734181CM	8723-1000-60	2	1000' reel	207.49	190.25	175.59
734184CM	8723-U500-60	2	500' unreel box	114.15	103.55	94.09
734183CM	8723-U1000-60	2	1000' unreel box	324.59	306.79	289.79

**20 AWG stranded (7 x 28) unshielded**

- Chrome PVC jacket
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	2	5
734172CM	8205-U500-60	1	500' unreel box	\$97.79	\$80.93	\$76.77
734171CM	8205-U1000-60	1	1000' unreel box	223.35	204.74	188.99

**20 AWG stranded (7 x 28) shielded with 22 AWG stranded TC drain wire**

- Semi-rigid PVC insulation and overall chrome PVC jacket
- Nominal capacitance: 180pF/m
- Nominal outer diameter: 0.300"
- Color: chrome



Part No.	Product No.	No. of Pairs	Description	1	5	10
734260CM	9402-100-60	2	100' reel	\$64.99	\$62.49	\$59.99
734262CM	9402-U500-60	2	500' unreel box	409.29	381.99	354.70
734261CM	9402-1000-60	2	1000' reel	944.85	865.45	798.82

**18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire**

- Tinned copper, twisted pair
- Color: chrome
- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.222"



Part No.	Product No.	No. of Pairs	Description	1	5	10
734185CM	8760-100-60	1	100' reel	\$34.99	\$32.49	\$29.99
447671CM	8760-250-60	1	250' reel	76.39	69.33	58.15
734187CM	8760-500-60	1	500' reel	158.29	143.63	130.51
734186CM	8760-1000-60	1	1000' reel	384.25	364.06	345.85
734189CM	8760-U500-60	1	500' unreel box	112.89	107.22	103.84
734188CM	8760-U1000-60	1	1000' unreel box	231.19	219.05	207.99

# Hook-Up Wire & Paired Cable

Color Code Legend  
New Sale Lower\$ QtySave

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.



## Belden Paired Cables (Continued)

### Unshielded Audio, Control and Instrumentation Cable

#### 16 AWG stranded (19 x 29) tinned copper

- Insulation & outer jacket: PVC
- UL1685 FT4 flame test
- Nominal inductance: 0.184µH/ft.
- Nominal capacitance: 16.4pF/ft.
- Max. operating voltage: 300Vrms

**NEW**

- Color: Chrome
- Nominal DCR: 4.49Ω/1000'
- Max. current: 7.1A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447540CM	8471-060-1000	1	1000' reel	\$466.65	\$443.29	\$421.09

#### 14 AWG stranded (42 x 30) tinned copper

- Insulation & outer jacket: PVC
- UL1685 flame test
- Nominal inductance: 0.19µH/ft.
- Nominal capacitance: 33pF/ft.
- Max. operating voltage: 300Vrms

**NEW**

- Color: Chrome
- Nominal DCR: 2.86Ω/1000'
- Max. current: 9.6A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447558CM	8473-060-500	1	500' unreel	\$245.49	\$233.15	\$221.49

### Paired Line Level Analog Audio Cable

#### 20 AWG stranded (7 x 28) with 20 AWG stranded TC drain wire

- Polyethylene insulation with chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.204"
- Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
734195CM	8762-100-60	1	100' reel	\$23.39	\$21.95	\$21.19
734197CM	8762-500-60	1	500' reel	146.05	138.32	130.64
734196CM	8762-1000-60	1	1000' reel	260.99	246.49	232.02
734199CM	8762-U500-60	1	500' unreel box	137.79	130.51	123.27
734198CM	8762-U1000-60	1	1000' unreel box	335.45	316.83	298.19

#### 16 AWG stranded (19 x 29) shielded with 18 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.313"
- Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733147CM	8719-100-60	1	100' reel	\$59.99	\$54.99	\$49.99
733155CM	8719-500-60	1	500' reel	267.09	242.34	220.34
733163CM	8719-1000-60	1	1000' reel	443.85	418.46	393.10
734065CM	8719-U500-60	1	500' unreel box	198.65	180.24	163.88
734064CM	8719-U1000-60	1	1000' unreel box	579.05	545.91	512.83

#### 14 AWG stranded (19 x 27) shielded with 16 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.355"
- Color: chrome

Part No.	Product No.	Pairs	Description	1	5	10
733172CM	8720-100-60	1	100' reel	\$59.99	\$51.55	\$48.97
733190CM	8720-500-60	1	500' reel	298.85	279.32	259.83
733198CM	8720-1000-60	1	1000' reel	621.75	578.37	563.91
734066CM	8720-U500-60	1	500' unreel box	416.99	389.78	362.59

### Two Conductor Low Impedance Cable

#### 20 AWG stranded (26 x 34) high conductivity tinned copper

- Insulation: EPDM 0.083" diameter
- Overall cabling separator: rayon braid
- Outer shield: braid tinned copper 85% coverage
- Outer shield separator material: cotton wrap
- Outer jacket: EPDM (ethylene propylene diene monomer rubber)
- Nominal impedance: 52Ω
- Nominal capacitance: 30pF/ft.
- Max. operating voltage: 600Vrms
- Color: black
- Nominal inductance: 0.18µH/ft.
- Nominal DCR: 3.06Ω/1000'
- Max. current: 4A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
425922CM	8412-010-100	1	100' reel	\$81.89	\$74.99	\$64.42

These products ship from a separate warehouse and may not ship the same day.  
Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## Belden Paired Cables (Continued)

### New Generation® Commercial Audio System Cable

#### 18 AWG stranded (7 x 26) bare copper with rip cord (unshielded)

- Suitable applications: addressable fire alarm systems, data circuits, monitor/detection, control circuits, initiating circuits, notification circuits
- Insulation: PVC 0.010" diameter
- UL1666 vertical shaft flame test
- Nominal capacitance: 30pF/ft.
- Max. operating voltage: 300Vrms

**NEW**

- Color: gray
- Outer jacket: PVC with rip cord
- Nominal inductance: 0.16µH/ft.
- Nominal DCR: 6.5Ω/1000'
- Max. current: 5A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447398CM	5300UE-008-U500	1	500' unreel	\$41.75	\$39.59	\$33.99
447380CM	5300UE-008-U1000	1	1000' unreel	79.85	75.79	65.06

### CM Rated Cable

#### 22 AWG stranded (7 x 30) tinned copper with 22 AWG stranded tinned drain wire

- Inner shield: Beldfoil® (Z-fold®) aluminum foil – polyester tape 100% coverage
- Insulation: PP (polypropylene)
- Color: Chrome
- Outer jacket: PVC
- UL1685 flame test
- Nominal impedance: 50Ω
- Nominal capacitance: 30pF/ft.
- Max. operating voltage: 300Vrms
- Nominal inductance: 0.18µH/ft.
- Nominal DCR: 15Ω/1000'
- Max. current: 2A per conductor

**NEW**

Part No.	Product No.	Pairs	Description	1	5	10
447726CM	8777-060-500	3	500' reel	\$286.49	\$259.92	\$246.89
447718CM	8777-060-1000	3	1000' reel	382.25	363.09	344.95
447734CM	8778-060-500	6	500' reel	545.79	518.49	499.99

### Flexible CM Rated Cable

#### 24 AWG stranded (7 x 32) tinned copper with 24 AWG TC drain wire

- Inner shield: Beldfoil® aluminum foil – polyester tape 100% coverage with 24AWG (7 x 32) tinned copper drain wire
- Outer shield: Beldfoil® aluminum foil – polyester tape 100% coverage with 18 AWG (7 x 26) tinned copper drain wire
- Insulation: PO (polyolefin)
- Inner and outer jacket: PVC
- Nominal capacitance: 31pF/ft.
- Max. operating voltage: 300Vrms
- Color: Black
- Nominal inductance: 0.18µH/ft.
- Nominal DCR: 23.3Ω/1000'
- Max. current: 1.05A per conductor

**NEW**

Part No.	Product No.	Pairs	Description	1	5	10
447161CM	1510C-B59-500	4	500' reel	\$544.49	\$517.19	\$491.35

### Audio, Control and Instrumentation Cable

#### 22 AWG solid tinned copper with 22 AWG solid TC drain wire

- Insulation & outer jacket: PVC
- Inner shield: Beldfoil® aluminum foil – polyester tape 100% coverage w/ 22AWG solid tinned copper drain wire
- Nominal inductance: 0.19µH/ft.
- Nominal capacitance: 40pF/ft.
- Max. operating voltage: 300Vrms
- Color: Chrome
- Nominal DCR: 16.7Ω/1000'
- Max. current: 1.5A per conductors

Part No.	Product No.	Pairs	Description	1	5	10
447697CM	8764-060-1000	9	1000' reel	\$1,508.19	\$1,474.99	\$1,449.99

#### 14 AWG stranded (42 x 30) tinned copper

- Insulation & outer jacket: PVC
- Inner shield: Beldfoil® (Z-fold®) aluminum foil – polyester tape 100% coverage
- Nominal capacitance: 40pF/ft.
- Max. operating voltage: 300Vrms
- Color: Chrome
- Nominal inductance: 0.19µH/ft.
- Nominal DCR: 16.7Ω/1000'
- Max. current: 2A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447700CM	8768-060-500	6	500' reel	\$452.89	\$430.19	\$408.69

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Belden Paired Cables (Continued)

### Shielded Audio, Control and Instrumentation Cable

24 AWG stranded (7 x 32) tinned copper with 24 AWG tinned copper drain wire

- UL1685 flame test
- Outer shield: Beldfoil® aluminum foil – polyester tape 100% coverage
- Outer jacket: PVC
- Nominal impedance: 52Ω
- Nominal capacitance: 31pF/ft.
- Max. operating voltage: 300Vrms
- Color: Black
- Insulation: PP (polypropylene)
- Nominal inductance: 0.17μH/ft.
- Nominal DCR: 23.5Ω/1000'
- Max. current: 2A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447339CM	1883A-010-U1000	1	1000' unreel	\$162.29	\$153.27	\$145.59

### Audio Alarm and Security Cable

14 AWG stranded (19 x 27) bare copper (unshielded)

- Suitable applications: intercom/PA systems, sound/audio systems, fire alarms
- Insulation: PVC 0.014" diameter
- UL1666 vertical riser flame test
- Nominal capacitance: 31pF/ft.
- Max. operating voltage: 300Vrms
- Color: gray
- Outer jacket: PVC
- Nominal inductance: 0.15μH/ft.
- Nominal DCR: 2.53Ω/1000'
- Max. current: 8A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447355CM	5100UE-008-500	1	500' reel	\$98.85	\$93.63	\$88.95

16 AWG stranded (19 x 29) bare copper (unshielded)

- Suitable applications: addressable fire systems, data circuits, monitor/detection, control circuits, initiating circuits, notification circuits
- Insulation: PVC 0.010" diameter
- UL1666 vertical riser flame test
- Nominal capacitance: 33pF/ft.
- Max. operating voltage: 300Vrms
- Color: gray
- Outer jacket: PVC
- Nominal inductance: 0.15μH/ft.
- Nominal DCR: 4.2Ω/1000'
- Max. current: 6.25A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447363CM	5200UE-008-1000	1	1000' reel	\$107.39	\$101.99	\$96.89
447371CM	5200UE-008-500	1	500' reel	53.75	50.99	43.78

### Low Capacitance Cable For EIA RS-232/422 Applications

24 AWG stranded (7 x 32) tinned copper with 24 AWG stranded tinned copper drain wire

- Insulation: Datalene® FPE (foam polyethylene)
- Outer shield: Beldfoil® aluminum foil – polyester tape w/ shorting fold, braid tinned copper 65% coverage
- Outer jacket: PVC
- UL1685 flame test
- Nominal capacitance: 12.5pF/ft.
- Max. operating voltage: 300Vrms
- Color: Chrome
- Nominal impedance: 100Ω
- Nominal DCR: 24Ω/1000'
- Max. current: 1.5A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447443CM	8107-060-100	7	100' reel	\$198.39	\$179.98	\$170.99

24 AWG stranded (7 x 32) tinned copper with 24 AWG stranded tinned copper drain wire

- UL1685 flame test
- Insulation: Datalene® FPE (foam polyethylene)
- Outer shield: Beldfoil® aluminum foil – polyester tape w/ shorting fold, braid tinned copper 65% coverage
- Outer jacket: PVC
- Nominal capacitance: 12.5pF/ft.
- Max. operating voltage: 300Vrms
- Color: Chrome
- Nominal impedance: 100Ω
- Nominal DCR: 24Ω/1000'
- Max. current: 1.1A per conductor

Part No.	Product No.	Pairs	Description	1	5	10
447451CM	8110-060-100	10	100' reel	\$230.89	\$209.48	\$199.99

### Composite Data, Audio, Video, Security and Control Cable

Two RG6 18 AWG solid bare copper conductors and two 4-pair UTP 24 AWG solid bare copper conductors

- Gas injected FPR insulation coax cable, polyolefin insulation CAT5e cable and F-R PVC jackets
- Component nominal outer diameter: .200"
- Banana Peel™ jacketless cables
- Color: black

Part No.	Product No.	Description	1	5	10
734164CM	7913S-500	500' reel	\$279.85	\$264.83	\$262.53
734163CM	7913S-1000	1000' reel	700.85	682.06	663.31



## Belden Paired Cables (Continued)

### Paired DataTwist® Category 5e UTP Cable

TIA/EIA – 568-B.2, unbonded-pair cable

- 4 pair unshielded
- 24 AWG solid
- Maximum DCR per 100m – 9.38Ω
- Input Impedance: 100Ω

1585A series:

- Plenum, FEP Teflon® insulation, Flamarrest® jacket
- Nominal outer dia.: 0.200"

1583A series:

- Non-plenum, polyolefin insulation, PVC jacket
- Nominal outer dia.: 0.214"

Part No.	Product No.	Color	Description	1	5	10
734093CM	1585A-100-877	Natural	100' reel	\$29.99	\$28.49	\$26.99
734095CM	1585A-500-877	Natural	500' reel	129.99	114.99	99.99
734094CM	1585A-1000-877	Natural	1000' reel	199.99	182.49	181.89
734096CM	1585A-U1000-877	Natural	1000' unreel box	199.99	189.99	179.99
734097CM	1585A-U1000-D15	Blue	100' unreel box	29.99	28.49	26.99
734099CM	1585A-U500-D15	Blue	500' unreel box	129.99	114.99	99.99
734098CM	1585A-U1000-D15	Blue	1000' unreel box	199.99	189.99	179.99
734090CM	1583A-100-06	Blue	100' reel	9.99	9.69	9.49
734177CM	1583A-500-06	Blue	500' reel	49.99	44.99	39.99
734091CM	1583A-1000-06	Blue	1000' reel	85.69	77.75	70.64
734092CM	1583A-U1000-06	Blue	1000' unreel box	85.69	77.75	70.64
447179CM	1583A-U1000-02	Red	1000' unreel box	83.19	74.22	66.32
447187CM	1583A-U1000-03	Orange	1000' unreel box	83.19	74.22	66.32
447195CM	1583A-U1000-04	Yellow	1000' unreel box	83.19	74.22	66.32
447208CM	1583A-U1000-05	Dk. green	1000' unreel box	83.19	74.22	66.32
447216CM	1583A-U1000-09	White	1000' unreel box	83.19	74.22	66.32
447224CM	1583A-U1000-10	Black	1000' unreel box	83.19	74.22	66.32
447232CM	1583A-U1000-F6H	Dk. gray	1000' unreel box	90.45	85.89	81.59



## Belden Hook-Up Wire

### UL AWM Style 1007

Belden hook-up and lead wire products are manufactured in a variety of materials, sizes, and designs to meet rigid industry and government specifications. Used in a wealth of applications including inter-connection circuits, internal wiring of computer and data processing equipment, appliances, and automotive. AWM, or Appliance Wiring Material, is Underwriter Laboratories' recognized covering of insulated wires and cables intended for internal wiring of appliances and equipment.

- Rated 105°C, 300V; 600V peak for electronic circuits and electrical equipment
- Tinned copper
- PVC insulated
- Increments of 100' or 1000' reels

Use the color code chart below to replace the "xx" when ordering

02 – Brown	03 – Red	04 – Orange	05 – Yellow	06 – Green
08 – Violet	09 – Gray	10 – White	11 – Black	14 – Dark blue

e.g. **734602CM** – **7346** is the Jameco designation for 28 AWG stranded wire and **02** is for color brown

Part No.	Product No.	Description	1	5	10
7346xxCM	9928-100-xx	28 AWG (7 x 36) stranded	\$13.19	\$10.77	\$9.93
7345xxCM	9926-100-xx	26 AWG (7 x 34) stranded	16.85	15.25	13.84
7344xxCM	9923-100-xx	* 24 AWG (7 x 32) stranded	15.89	14.44	13.08
7343xxCM	9921-100-xx	22 AWG (7 x 30) stranded	14.79	13.51	12.26
7342xxCM	9919-100-xx	20 AWG (7 x 28) stranded	23.69	21.48	19.55
7341xxCM	9918-100-xx	18 AWG (16 x 30) stranded	20.39	19.19	16.79
7340xxCM	9916-100-xx	16 AWG (26 x 30) stranded	38.79	31.52	29.14
447902CM	9923-1000-02	24 AWG (7 x 32) stranded red	101.35	96.64	91.94
447911CM	9923-1000-07	24 AWG (7 x 32) stranded violet	91.55	83.66	76.91

\* Not available in violet, gray or dark blue

See Complete Belden Hook-Up Wire at [www.Jameco.com/Prod/BeldenHookup](http://www.Jameco.com/Prod/BeldenHookup)

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

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# Hook-up & Multi-Conductor Cables

Color Code Legend  
New Sale Lower\$ QtySave



## Bus Bar Hook-Up Wire

In accordance with performance requirements of Federal Specs. QQ-W343G.

- Solid tinned copper, single conductor
- Nominal outer diameter: 24 AWG – .021"; 22 AWG – .026"; 20 AWG – .033"

Part No.	Product No.	Description	1	5	10
734169CM	8022-100	24 AWG, 100' reel	\$12.09	\$10.94	\$9.95
734170CM	8022-1000	24 AWG, 1000' reel	70.55	56.99	52.62
734167CM	8021-100	22 AWG, 100' reel	13.45	10.81	9.77
734168CM	8021-1000	22 AWG, 1000' reel	91.39	77.91	72.05
734165CM	8020-100	20 AWG, 100' reel	13.29	11.67	10.55
734166CM	8020-1000	20 AWG, 1000' reel	141.49	120.59	111.51



## Belden Multi-Conductor Cables

### Audio, Control and Instrumentation Cable

#### 22 AWG stranded (7 x 30) tinned copper (unshielded)

- Insulation and outer jacket: PVC
- Color: Chrome
- Nominal inductance: 0.17µH/ft.
- Nominal capacitance: 34pF/ft.
- Max. operating voltage: 300Vrms
- Nominal DCR: 15.6Ω/1000'
- Max. current: 2.1A per conductor

Part No.	Product No.	Conductors	Description	1	5	10
447873CM	9430-060-U1000	7	1000' unreel	\$387.05	\$351.16	\$333.59

### Computer Cable For EIA RS-232 Applications

#### 24 AWG stranded (7 x 32) tinned copper with 24 AWG stranded TC drain wire

- Insulation and outer jacket: PVC
- Color: Chrome
- Nominal DCR: 25Ω/1000'
- Nominal capacitance: 33pF/ft.
- Outer shield: Beldfoil® aluminum foil-polyester tape 100% coverage
- Max. operating voltage: 300Vrms
- Max. current: 1.75A per conductor

Part No.	Product No.	Conductors	Description	1	5	10
447890CM	9536-060-500	6	500' unreel	\$179.19	\$169.99	\$160.05

### Unshielded Audio, Control and Instrumentation Cable

#### 18 AWG stranded (19 x 30) tinned copper

- Insulation & outer jacket: PVC
- Color: Chrome
- Nominal capacitance: 26pF/ft.
- Max. operating voltage: 300Vrms
- Nominal DCR: 6.3Ω/1000'
- Max. current: 4A per conductor

Part No.	Product No.	Conductors	Description	1	5	10
447566CM	8489-060-U1000	4	1000' unreel	\$302.09	\$274.99	\$255.17

### Audio, Control and Instrumentation Cable

#### 18 AWG stranded (19 x 30) tinned copper with 20 AWG stranded TC drain wire

- Insulation: S-R PVC (semi-rigid PVC)
- Outer shield: Beldfoil® (Z-Fold®) aluminum foil-polyester tape 100% coverage
- Color: chrome
- Outer jacket: PVC
- UL1666 vertical shaft flame test
- Nominal capacitance: 70pF/ft.
- Max. operating voltage: 300Vrms
- Nominal DCR: 6.5Ω/1000'
- Max. current: 5A per conductor

Part No.	Product No.	Conductors	Description	1	5	10
447865CM	9418-060-500	4	500' reel	\$257.09	\$243.51	\$231.35

### New Generation® Commercial Application Cable

#### 18 AWG stranded (7 x 26) bare copper with 20 AWG stranded (7 x 28) TC drain wire

- Insulation: PVC 0.010" diameter
- Color: gray
- Outer jacket: PVC
- UL1666 vertical shaft flame test
- Outer shield: Beldfoil® aluminum foil – polyester tape w/ shorting fold 100% coverage
- Nominal capacitance: 38pF/ft.
- Max. operating voltage: 300Vrms
- Nominal DCR: 7.2Ω/1000'
- Max. current: 4A per conductor

Part No.	Product No.	Conductors	Description	1	5	10
447401CM	5302FE-008-U1000	4	1000' unreel	\$176.75	\$167.89	\$144.10

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.



## Belden Multi-Conductor Cables (Cont'd)

### Multi-Conductor Audio, Control & Instrumentation Cables Non-Plenum

#### 22 AWG stranded (7 x 30) shielded with 22 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 75pF/m
- Nominal outer diameter: 0.199"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733235CM	8771-100-60	3	100' reel	\$29.99	\$25.95	\$24.65
733243CM	8771-500-60	3	500' reel	99.49	94.31	89.07
733252CM	8771-1000-60	3	1000' reel	228.15	215.17	202.52
734068CM	8771-U500-60	3	500' unreel box	149.99	142.31	134.39
734067CM	8771-U1000-60	3	1000' unreel box	298.95	281.99	265.41

#### 22 AWG stranded (7 x 30) unshielded

- PVC insulation
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
732996CM	8442-100-60	2	100' reel	\$11.99	\$10.99	\$9.99
733008CM	8442-500-60	2	500' reel	51.59	48.91	46.19
733016CM	8442-1000-60	2	1000' reel	139.39	133.48	123.82
734055CM	8442-U500-60	2	500' unreel box	70.39	66.71	62.99
734054CM	8442-U1000-60	2	1000' unreel box	96.45	92.38	85.69
733024CM	8443-100-60	3	100' reel	15.69	14.25	12.94
733032CM	8443-500-60	3	500' reel	72.75	68.91	65.09
733041CM	8443-1000-60	3	1000' reel	137.79	130.17	120.75
734057CM	8443-U500-60	3	500' unreel box	72.75	68.91	65.09
734056CM	8443-U1000-60	3	1000' unreel box	137.79	130.17	120.75
733059CM	8444-100-60	4	100' reel	25.39	23.09	20.98
733067CM	8444-500-60	4	500' reel	92.99	88.07	83.19
733075CM	8444-1000-60	4	1000' reel	176.19	166.35	154.31
734059CM	8444-U500-60	4	500' unreel box	92.99	88.07	83.19
734058CM	8444-U1000-60	4	1000' unreel box	176.19	166.35	154.31
733083CM	8445-100-60	5	100' reel	25.15	22.76	20.69
733092CM	8445-500-60	5	500' reel	111.99	101.80	93.33
733104CM	8445-1000-60	5	1000' reel	220.25	207.99	192.96
734061CM	8445-U500-60	5	500' unreel box	190.49	173.14	158.74
734060CM	8445-U1000-60	5	1000' unreel box	374.65	353.75	328.19

#### 20 AWG stranded (7 x 28) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation and chrome PVC jacket
- Nominal capacitance: 89pF/m
- Nominal outer diameter: 0.218"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
734254CM	8772-U500-60	3	500' unreel box	\$149.99	\$136.36	\$124.99
734253CM	8772-U1000-60	3	1000' unreel box	306.45	280.92	259.29

#### 18 AWG stranded (16 x 30) shielded with 20 AWG stranded TC drain wire

- Polyethylene insulation
- Nominal capacitance: 79pF/m
- Nominal outer diameter: 0.246"
- Color: chrome



Part No.	Product No.	Conductors	Description	1	5	10
733201CM	8770-100-60	3	100' reel	\$59.99	\$54.99	\$49.99
733219CM	8770-500-60	3	500' reel	210.09	190.59	173.18
733227CM	8770-1000-60	3	1000' reel	403.29	371.15	342.58
734084CM	8770-U500-60	3	500' unreel box	274.49	249.03	226.26
734083CM	8770-U1000-60	3	1000' unreel box	497.09	457.48	422.27

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.



## Wire & Cable

### 568641CM: Multi-Conductor Unshielded Communications & Control Cable

- 22 AWG (7 x 30) stranded tinned copper
- UL AWM 2576 type CM
- PVC jacket • Gray • 2 conductor



### 568691CM: Multi-Conductor Foil Shield Communication & Control

- 20 AWG (7 x 28) stranded tinned copper with 20 AWG (10 x 30) stranded drain wire tinned copper
- Rating: 300V; 75°C • 2 conductor
- PE insulation • PVC jacket (gray)



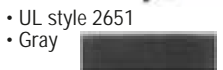
### 568827CM: Xtra Guard® I Multi-Conductor, Unshielded Cable

- 24/20/18/16 AWG stranded tinned copper
- UL type CM, AWM 2464 • PVC jacket
- Rating: 300V; -20°C to 80°C



### 568747CM: 0.050" Centers Flat Ribbon Cable

- Rating: 300V; -20°C to 105°C • PVC insulation
- Nominal capacitance: 14pF/ft. • 9 conductors
- Nominal impedance: 105Ω • Stranded tinned



Part No.	Product No.	Description	1	10	100
568641CM	1172C SL005	100' reel			
568691CM	2411C SL002	500' reel			
568827CM	5062C SL005	100' reel			
568747CM	3580/9 SL005	100' reel			

For current pricing, enter part number at [www.Jameco.com](http://www.Jameco.com)

See Our Alpha Wire & Cable Offering at [www.Jameco.com/Prod/AlphaWire](http://www.Jameco.com/Prod/AlphaWire)



## Hook-Up Wire

### 568721CM: Type B MIL-W-16878E

- 600V • PVC insulation • Green
- Operating temp: -20°C to 105°C
- 10 AWG (105 x 30) stranded



### 568886CM: Type EE UL Style 1880 MIL-W-16878E

- 18 AWG (19 x 30) stranded • Yellow
- TFE Teflon insulation • Rating: 1000V; 200°C



### 568659CM/568667CM: Type MW MIL-W-76B

- PVC insulation • Rating: 1000V; 80°C • Yellow
- 18 AWG (16 x 30) and 12 AWG (65 x 30) stranded tinned copper

### 568704CM: Type E MIL-W-16878E

- 22AWG Solid • Color: orange
- Teflon (PTFE) insulation • Voltage rating: 600Vrms

### 568712CM: AWM / Style1015

- 14AWG stranded (41 x 30) tinned copper • PVC insulation
- Voltage rating: 600Vrms • Color: red

### 568923CM: AWM / Style1430

- 18AWG stranded (7 x 26) tinned copper • PVC insulation
- Voltage rating: 300Vrms • Color: green

Part No.	Product No.	Description	1	5	10
568721CM	3081 GR005	100' reel			
568886CM	5877 BK005	100' reel			
568659CM	1555 GR005	100' reel			
568667CM	1560 GR005	100' reel			
568704CM	2855/1 OR001	100' reel			
568712CM	3079-RD001	100' reel			
568923CM	7133-GR001	100' reel			

For current pricing, enter part number at [www.Jameco.com](http://www.Jameco.com)

See Our Alpha Wire & Cable Offering at [www.Jameco.com/Prod/AlphaHookupWire](http://www.Jameco.com/Prod/AlphaHookupWire)





## Shielding Grounding Strap

A tight weave of multi-strand, soft drawn tinned copper wire, this shielding ground strap is an ideal material for short run cables providing easy radial termination.

- Applications: point-to-point ground path, wire/cable shielding
- Nominal ID – 11/64" (4.37mm); braid construction – 36AWG individual ends 168 individual ends; 14 AWG equivalence

Part No.	Product No.	Length	1	10	100
568675CM	2168-SV003	250 ft. tinned copper braid	\$181.95	\$172.86	\$164.22

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Solid Hook-Up Wire – 22 AWG

- Temp. range: -55°C to +105°C • Passes UL VW-1 flame test
- Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.) • MIL-W-16878D type B
- For use with breadboards such as the JE20 series, pg 312



Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
36768CM	122BE/C	Blue	\$5.49	36776CM	122BE/K	Blue	\$39.99
36792CM	122BK-R/C	Black	5.49	36805CM	122BK/K	Black	39.99
36822CM	122G-R/C	Green	5.49	36840CM	122G/K	Green	39.99
36856CM	122R/C	Red	5.49	36864CM	122R/K	Red	39.99
36881CM	122W-R/C	White	5.49	36899CM	122W/K	White	39.99
36920CM	122Y/C	Yellow	5.49	36928CM	122Y/K	Yellow	39.99



## UL 1430 Stranded Hook-up Wire

- Temperature rating: 105°C
- Voltage: 300V
- Average wall thickness: 0.016

- 18/20 AWG
- Sold in 100' rolls



Part No.	Gauge	Color	Strands	Dia. (in.)	Dia. (mm)	1	10	25
307918CM	18	Black	19 x 30	0.082	2.083	\$15.95	\$14.35	\$12.49
307926CM	18	Red	19 x 30	0.082	2.083	15.95	14.35	12.49
305015CM	18	Orange	7 x 26	0.082	2.083	15.95	14.35	12.49
305023CM	18	Yellow	7 x 26	0.082	2.083	15.95	14.35	12.49
304995CM	20	Yellow	19 x 32	0.071	1.803	15.95	14.35	12.49
305007CM	20	Gray	19 x 32	0.071	1.803	15.95	14.35	12.49
304979CM	20	Blue	7 x 28	0.070	1.778	15.95	14.35	12.49
304987CM	20	Gray	7 x 28	0.070	1.778	15.95	14.35	12.49
307897CM	20	Black	7 x 28	0.070	1.778	15.95	14.35	12.49
307900CM	20	Red	7 x 28	0.070	1.778	15.95	14.35	12.49



## UL 1007 Stranded Hook-Up Wire

### 300 Volts

- 80°C
- PVC insulation
- Temperature range: -40°C to +80°C
- CSA: TR-64 • Sold in 100' rolls



Part No.	Cross Ref.	AWG	Color	Wt. (lbs.)	1	5	10
126084CM	223SBK/C	22 (7x30)	Black	0.4	\$3.39	\$3.19	\$2.99
126033CM	223SR/C	22 (7x30)	Red	0.4	3.39	3.19	2.99
126076CM	223SW/C	22 (7x30)	White	0.4	3.39	3.19	2.99
310851CM	UL1007-22-GR-C	22 (7x30)	Green	1.0	3.39	3.19	2.99
310877CM	UL1007-22-YL-C	22 (7x30)	Yellow	1.0	3.39	3.19	2.99
310885CM	UL1007-22-BL-C	22 (7x30)	Blue	1.0	3.39	3.19	2.99
125840CM	203SBK/C	20 (10x30)	Black	0.6	4.95	4.75	4.49
125794CM	203SR/C	20 (10x30)	Red	0.5	4.95	4.75	4.49
125831CM	203SW/C	20 (10x30)	White	0.5	4.95	4.75	4.49
310893CM	UL1007-20-GR-C	20 (10x30)	Green	1.0	4.95	4.75	4.49
310914CM	UL1007-20-YL-C	20 (10x30)	Yellow	1.0	4.95	4.75	4.49
310922CM	UL1007-20-BL-C	20 (10x30)	Blue	1.0	4.95	4.75	4.49
125786CM	183SBK/C	18 (16x30)	Black	0.8	5.79	5.55	5.25
125735CM	183SR/C	18 (16x30)	Red	0.8	5.79	5.55	5.25
125751CM	183SW/C	18 (16x30)	White	0.8	5.79	5.55	5.25
310931CM	UL1007-18-GR-C	18 (16x30)	Green	1.0	5.79	5.55	5.25
310949CM	UL1007-18-YL-C	18 (16x30)	Yellow	1.0	5.79	5.55	5.25
310957CM	UL1007-18-BL-C	18 (16x30)	Blue	1.0	5.79	5.55	5.25



## Twisted Pair Cable – 24 AWG

- PVC insulation
- Use for hook up wire
- Stranded tinned wire (7 x 32) • 300 V
- Weight: 100' (0.5 lbs.); 1000' (4.7 lbs.)

- Reduced EMI
- 80°C



Part No.	Cross Ref. No.	Color	100 ft.	Part No.	Cross Ref. No.	Color	1000 ft.
105911CM	224GW/C	Green/white	\$5.99	105806CM	224GW/K	Green/white	\$44.99
173147CM	224RW/C	Red/white	5.99	173155CM	224RW/K	Red/white	44.99
173163CM	224BW/C	Black/white	5.99	173171CM	224BW/K	Black/white	44.99

Due to extraordinary copper market price fluctuations,  
cable and wire prices are subject to change.

Call for OEM pricing

**JAMECO ValuePro Modular Telephone Cable – 28 AWG**

- Color coded conductors
- Flat modular cable
- PVC jacket

- 7 x 43 stranded
- Gray



Part No.	Cross Ref. No.	Conductors	Length (ft.)	1	25	50
644666CM	300-840SL-100	4	100	\$3.49	\$3.29	\$3.09
644674CM	300-840SL-1000	4	1000	29.99	28.49	27.05
644691CM	300-860SL-100	6	100	7.49	6.75	6.09
644703CM	300-860SL-1000	6	1000	49.99	47.49	45.09
644720CM	300-880SL-100	8	100	9.99	9.49	8.99
644738CM	300-880SL-1000	8	1000	61.99	58.89	55.95

**JAMECO ValuePro Category 5e/5 Network Cable**

- 4 twisted pairs
- Insulation: polyethylene
- Nom. OD.: 0.189"
- Nom. impedance: 100

• UTP



Solid: uses modular plug P/N 119343CM, pg 109

Stranded: uses modular plug P/N 79281CM, pg 109

- Prepackaged and priced in increments of 25', 100' or 1000'

**24 AWG UTP Category 5 Enhanced – 350MHz**

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644543CM	10X5-701TH-25	Solid	Gray	25	\$4.99	\$4.75
644551CM	10X5-701TH-100	Solid	Gray	100	16.99	16.15
644560CM	10X5-701TH-1000	Solid	Gray	1000	99.99	94.99
645714CM	10X5-704TH-25	Solid	Blue	25	4.99	4.75
645722CM	10X5-704TH-100	Solid	Blue	100	16.99	16.15
645731CM	10X5-704TH-1000	Solid	Blue	1000	99.99	94.99
644578CM	10X5-801TH-25	Stranded	Gray	25	5.99	5.69
644586CM	10X5-801TH-100	Stranded	Gray	100	17.99	16.19
644594CM	10X5-801TH-1000	Stranded	Gray	1000	159.99	143.99
644607CM	10X5-804TH-25	Stranded	Blue	25	5.99	5.69
644615CM	10X5-804TH-100	Stranded	Blue	100	17.99	16.19
644623CM	10X5-804TH-1000	Stranded	Blue	1000	159.99	151.99
645749CM	10X5-805TH-25	Stranded	Red	25	5.99	5.69
645757CM	10X5-805TH-100	Stranded	Red	100	17.99	16.19
645765CM	10X5-805TH-1000	Stranded	Red	1000	159.99	143.99
645773CM	10X5-802TH-25	Stranded	Black	25	5.99	5.69
645781CM	10X5-802TH-100	Stranded	black	100	17.99	16.19
645790CM	10X5-802TH-1000	Stranded	Black	1000	159.99	143.99
645802CM	10X5-806TH-25	Stranded	Yellow	25	5.99	5.69
645811CM	10X5-806TH-100	Stranded	Yellow	100	17.99	16.19
645829CM	10X5-806TH-1000	Stranded	Yellow	1000	159.99	143.99

**24 AWG UTP Category 5 – 100MHz**

• 7/32 AWG

Part No.	Cross Ref. No.	Description	Color	Length (ft.)	1	25
644631CM	GTP501-4P-GR-25	Stranded	Gray	25	\$5.95	\$5.65
644640CM	GTP501-4P-GR-100	Stranded	Gray	100	19.35	18.39
644658CM	GTP501-4P-GR-1000	Stranded	Gray	1000	164.49	156.25

**Kynar™ Wire Wrap Wire – 30 AWG**

- Assorted color coded insulation
- Color coded Kynar™ (Polyvinidene Fluoride) insulation
- Silver plated copper (solid conductor)
- Temperature: -40°C to +125°C
- Wire wrap tools, pg 300
- See pg 141 for sockets
- Used for prototyping
- UL 1423
- Passes UL VW-1 flame test



22542CM

Part No.	Color	Wt. (lbs.)	100 ft.	Part No.	Color	Wt. (lbs.)	1000 ft.
22542CM	Blue	0.1	\$4.95	22551CM	Blue	0.6	\$29.95
22577CM	Black	0.1	4.95	22585CM	Black	0.6	29.95
22631CM	Red	0.1	4.95	22649CM	Red	0.6	29.95
22665CM	White	0.1	4.95	22673CM	White	0.6	29.95
22606CM	Green	0.1	4.95	22614CM	Green	0.6	29.95
22700CM	Yellow	0.1	4.95	22702CM	Yellow	0.6	29.95

**JAMECO ValuePro Multiconductor Shielded Computer Communication Cable – 24 AWG**

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Voltage rating: 300V
- 24 AWG (7 x 32 AWG)
- Shielded 100% w/ aluminum mylar
- Color: gray
- Drain wire



- Prepackaged and priced in increments listed below

Part No.	Cross Ref. No.	Conductors	Diameter	Length	1	25
644383CM	SC4-25	4	0.20"	25'	\$4.75	\$4.49
644391CM	SC4-100	4	0.20"	100'	16.99	16.15
644404CM	SC4-1000	4	0.20"	1000'	139.99	132.99
644412CM	SC9-25	9	0.23"	25'	11.25	10.69
644421CM	SC9-100	9	0.23"	100'	34.99	33.25
644439CM	SC9-1000	9	0.23"	1000'	269.99	256.49
644447CM	SC15-25	15	0.28"	25'	14.75	13.99
644455CM	SC15-100	15	0.28"	100'	48.99	46.55
644463CM	SC15-1000	15	0.28"	1000'	429.99	408.49
644471CM	SC25-25	25	0.37"	25'	22.25	21.15
644480CM	SC25-100	25	0.37"	100'	70.99	67.45
644498CM	SC25-500	25	0.37"	500'	589.99	560.49

**JAMECO ValuePro Multicolor Flat Ribbon Cable – 28 AWG**

- Standard 10-color repeat sequence
- 28 AWG (7 x 36)
- Stranded copper wire
- Center spacing: 0.05"
- Voltage rating: 300V
- Temperature rating: -20°C to +80°C
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
639672CM	28RC10-10	10	10'	\$1.99	\$1.95	\$1.89
643508CM	28RC10-25	10	25'	4.99	4.79	4.59
643516CM	28RC10-100	10	100' reel	19.99	19.49	18.99
643532CM	28RC16-10	16	10'	3.49	3.29	3.09
643541CM	28RC16-25	16	25'	7.49	7.09	6.75
643559CM	28RC16-100	16	100' reel	26.99	25.65	24.35
643575CM	28RC20-10	20	10'	4.99	4.75	4.49
643583CM	28RC20-25	20	25'	9.99	9.49	8.99
643591CM	28RC20-100	20	100' reel	34.99	33.99	32.99
643612CM	28RC25-10	25	10'	6.99	6.65	6.29
643621CM	28RC25-25	25	25'	15.99	15.19	14.45
643639CM	28RC25-100	25	100' reel	59.99	56.99	54.15
643655CM	28RC34-10	34	10'	7.99	7.59	7.19
643663CM	28RC34-25	34	25'	17.99	16.99	16.15
643671CM	28RC34-100	34	100' reel	69.99	66.99	64.15
643698CM	28RC40-10	40	10'	8.99	8.55	8.09
643701CM	28RC40-25	40	25'	19.99	18.99	18.05
643719CM	28RC40-100	40	100' reel	79.99	75.99	72.19
643735CM	28RC50-10	50	10'	10.99	10.45	9.95
643743CM	28RC50-25	50	25'	24.99	23.75	22.55
643751CM	28RC50-100	50	100' reel	89.99	85.49	81.19

**JAMECO ValuePro 2-Conductor Power/Speaker Cable – 24 AWG**

- Black wire with white polarity stripe
- Temperature rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V



Part No.	Cross Ref. No.	Length	Wt. (lbs.)	1	10	25
100280CM	224BK/C	100'	0.8	\$5.59	\$4.99	\$4.49
100298CM	224BK/K	1000'	7.8	44.99	40.49	36.45

Have you found a product at a lower  
print-advertised price? We'll beat that price  
by 10%, right down to our cost!



Call for OEM pricing

## JAMECO ValuePro Gray Flat Ribbon Cable – 28 AWG

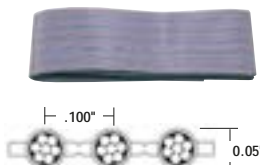
- Single edge red stripe for pin 1 orientation
- Insulation: polyvinyl chloride (PVC)
- Center spacing: 0.05"
- Temp. rating: -20°C to +80°C
- 28 AWG (7 x 36)
- Voltage rating: 300V
- Stranded copper wire
- Prepackaged and priced in increments listed below



Part No.	Cross Ref. No.	Conductors	Length	1	25	50
643794CM	171-10-10	10	10' .....	\$1.49	\$1.39	\$1.29
643807CM	171-10-25	10	25' .....	3.19	3.09	2.99
643815CM	171-10-100	10	100' reel	11.49	10.99	10.49
643831CM	171-16-10	16	10' .....	2.19	2.09	1.99
643840CM	171-16-25	16	25' .....	4.99	4.49	3.99
643858CM	171-16-100	16	100' reel	15.99	14.99	13.99
643874CM	171-20-10	20	10' .....	3.99	3.79	3.59
643882CM	171-20-25	20	25' .....	6.25	5.99	5.69
643891CM	171-20-100	20	100' reel	15.99	15.49	14.99
643911CM	171-25-10	25	10' .....	3.89	3.79	3.69
643920CM	171-25-25	25	25' .....	8.75	8.29	7.85
643938CM	171-25-100	25	100' reel	24.99	23.75	22.55
643962CM	171-26-10	26	10' .....	3.49	3.29	3.09
643971CM	171-26-25	26	25' .....	7.99	7.59	7.19
643989CM	171-26-100	26	100' reel	24.99	23.69	22.49
644033CM	171-34-10	34	10' .....	4.25	3.99	3.79
644041CM	171-34-25	34	25' .....	9.25	8.79	8.35
644050CM	171-34-100	34	100' reel	31.99	30.39	28.85
644076CM	171-37-10	37	10' .....	5.89	5.59	5.29
644084CM	171-37-25	37	25' .....	11.75	11.15	10.59
644092CM	171-37-100	37	100' reel	34.99	33.25	31.59
644113CM	171-40-10	40	10' .....	7.39	6.99	6.65
644121CM	171-40-25	40	25' .....	17.49	16.59	15.75
644130CM	171-40-100	40	100' reel	47.99	45.59	43.29
644156CM	171-50-10	50	10' .....	6.75	6.39	6.05
644164CM	171-50-25	50	25' .....	14.49	13.75	13.05
644172CM	171-50-100	50	100' reel	48.99	46.55	44.19
644199CM	171-60-10	60	10' .....	8.95	8.49	8.05
644201CM	171-60-25	60	25' .....	19.75	18.75	17.79
644210CM	171-60-100	60	100' reel	64.99	61.75	58.65

## .100" (2.54mm) Flat Ribbon Cable

- 10-conductor 24 AWG stranded
- Insulation material: 7mm polyvinyl chloride (PVC) gray
- Rated temp.: 105°C
- Rated voltage: 300V
- Dielectric strength: 2kV in 1 min.
- Insulation resistance: 100MΩ
- Capacitance: 31pF/m
- Inductance: 1.45µH/m



Part No.	Cross Ref.	Length	1	10	25
363813CM	H24G-10-10	10' .....	\$8.99	\$8.49	\$7.99
363821CM	H24G-10-25	25' .....	19.99	18.99	17.99
363856CM	H24G-10-100	100' .....	69.99	64.99	59.99
363864CM	H24G-10-250	250' reel	199.99	174.99	149.99

We're committed to providing you  
with the best service in the industry.

## JAMECO ValuePro RG Type Bulk Coaxial Cable

RG58/U & RG58A/U (50Ω): Nom. cap.: 27pF/ft.; center resist.: 10.4Ω/1000ft. @ 77°F • For ethernet, oscilloscopes

RG59/U (75Ω): Nominal capacitance: 19pF/ft.; center resist.: 16.5Ω/1000ft. @ 77°F

• For CATV & video patch cords

RG174/U (50Ω): Nominal capacitance: 30.8pF/ft.; center resist.: 97Ω/1000ft. @ 77°F

• For ethernet, oscilloscopes



Part No.	Cross Ref No.	Type	Description	Length	1	25	50
644754CM	RG58/U-100	RG58/U	20 AWG solid	100'	\$11.99	\$11.39	\$10.79
644762CM	RG58/U-1000	RG58/U	20 AWG solid	1000'	108.49	103.05	97.89
644771CM	10X1-041TH-100	RG58A/U	20 AWG stranded	100'	18.99	17.99	17.09
644789CM	10X1-041TH-1000	RG58A/U	20 AWG stranded	1000'	149.99	142.49	135.35
644797CM	RG59/U-100	RG59/U	22 AWG solid	100'	12.99	12.35	11.75
644800CM	RG59/U-1000	RG59/U	22 AWG solid	1000'	109.99	104.49	99.25
644818CM	RG174/U-100	RG174/U	26 AWG stranded	100'	18.99	17.99	17.09
644826CM	RG174/U-1000	RG174/U	26 AWG stranded	1000'	168.99	160.55	152.49

## Quantity SAVE

## Disk Drive Cables



Part No.	Description	Length	1	10	100
185084CM	34-pin header socket ribbon cable for floppy drive	25"	\$1.19	\$ .99	\$ .75
32918CM	34-pin header socket ribbon cable for floppy to card	23"	3.49	2.97	2.22
355637CM	40-pin IDE hard drive cable to card	11.5"	....	.89	.86
185076CM	40-pin IDE hard drive cable to card	14"	....	.95	.71
32686CM	40-pin IDE hard drive cable to card	18"	....	.95	.90
72805CM	Two 40-pin header socket ribbon cable for IDE drive	18"	....	3.69	3.14
175492CM	40-pin header socket ribbon cable for ultra DMA66/100	17"	....	6.95	6.25

Internal & External SCSI Cables for  
Complete Connectivity

Part No.	Description	1	10	100
32715CM	50-pin header socket ribbon cable SCSI-I (18")	\$3.95	\$3.49	\$2.95
137550CM	68-pin header internal ribbon cable SCSI-III (27")	12.49	11.25	10.15
118076CM	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	13.95

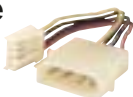
Internal Serial ATA, ATA-133 &  
Floppy Drive Cables

348824CM Includes: converter unit, power and serial ATA cables

Part No.	Description	Length	1	10	25
348710CM	Round Serial ATA cable, 90', red, 7-pin	19.9"	\$4.19	\$3.70	\$3.52
348744CM	Round Serial ATA cable, 90', red, 7-pin	39.4"	5.29	4.69	4.45
348728CM	Round Serial ATA cable, 180', red, 7-pin	19.9"	4.19	3.70	3.52
348736CM	Round Serial ATA cable, 180', red, 7-pin	39.4"	5.29	4.69	4.45
348752CM	Round ATA-133/IDE cable, dual 40-pin, blue	18"	4.25	3.84	3.65
348761CM	Round ATA-133/IDE cable, dual 40-pin, black	18"	4.25	3.84	3.65
348779CM	Round ATA-133/IDE cable, dual 40-pin, blue	24"	4.89	4.60	4.38
348787CM	Round ATA-133/IDE cable, dual 40-pin, black	24"	4.89	4.60	4.38
348795CM	Round floppy drive cable, 34-pin, blue	18"	5.95	5.95	5.19
348808CM	Round floppy drive cable, 34-pin, black	18"	5.95	5.46	5.19
348816CM	Round floppy drive cable, 34-pin, blue	24"	6.89	6.49	6.17
348841CM	Serial ATA power cable ext., 15-pin to 4-pin	6"	2.49	2.30	2.19
Part No.	Description		1	10	
348824CM	IDE to serial ATA converter, 40-pin HDD to serial ATA		\$26.09	\$24.79	

## 3.5" Disk Drive Power Adapter Cable

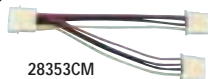
- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies



Part No.	Length	AWG	1	10	100
28396CM	3.5"	22	\$2.49	\$2.25	\$1.95

## 3.5" & 5.25" Disk Drive Power Splitters

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females



Part No.	Drive	AWG	Length	1	10	100
28353CM	5.25"	18	5'	\$2.95	\$2.69	\$2.39
277528CM	5.25"	20	6'	2.85	2.59	2.25
72303CM	3.5"	22	5'	2.75	2.49	2.19

## AT/ATX Power Supply Extension Cables

### 348891CM:

- For use with 12-pin AT power supplies



### 326490CM/170237CM:

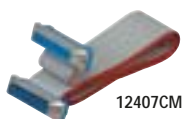
- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply



Part No.	Length	AWG	1	10	100
348891CM	9.75"	18	\$1.89	\$1.78	\$1.69
326490CM	13"	18	5.35	5.09	4.79
170237CM	15"	18	5.95	5.65	5.35

## Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts



Part No.	Description	1	10	100
12407CM	4' DB25 M-F	\$4.49	\$3.95	\$3.59
208581CM	6' DB9 M-F	3.95	3.55	3.19

## PC/XT/AT & PS/2 Keyboard Extension Cables

- Color: beige

Quantity SAVE

### 114981CM/112045CM:

- 5-pin DIN male-to-female



### 28548CM/111053CM:

- 6-pin mini DIN female-to-male

Part No.	Description	1	10	100
114981CM	PC/XT/AT 6' non-coiled	\$1.99	\$1.69	\$1.27
112045CM	PC/XT/AT 10' non-coiled	3.95	3.36	2.52
28548CM	PS/2 6' non-coiled	4.35	3.89	3.49
111053CM	PS/2 10' non-coiled	5.49	4.99	4.39

## Dual PS/2 Adapter

Converts a dual PS/2 female to a single PS/2 male.

- Size: 1.9"L x 1.2"W



Part No.	Description	1	10	100
319791CM	PS/2 adapter	\$2.75	\$2.59	\$2.45

## AT-to-PS/2 and PS/2-to-AT Keyboard Adapter Cables

### 28003CM/319783CM:

- Connects AT-type keyboards to PS/2
- 5-pin female DIN to 6-pin male mini DIN



### 310789CM:

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors

Part No.	Length	Color	1	10	100
319783CM	4.5"	Black	\$2.45	\$2.19	\$1.99
28003CM	6.5"	Beige	3.95	3.49	3.15
310789CM	7.5"	Beige	3.95	3.49	3.15

## IEEE 1284 Parallel/ Serial High Speed Cables

Compatible with bidirectional communication data flow resulting in speeds up to 10 times faster than conventional applications.

- Double shielded with 28 AWG stranded twisted pair inner conductors
- Molded shells, PVC plastic
- Color: beige (P/N 130067CM/319767CM); black (P/N 161630CM); gray (P/N 223845CM)



Part No.	Description	1	10
130067CM	6' DB25 M-Cent. parallel 36M	\$11.95	\$10.95
319767CM	6' DB25 M-Cent. parallel 36M	4.95	4.69
223845CM	6' DB25 M-Cent. parallel 36M	11.95	10.95
161630CM	10' DB25 M-M serial cable	14.95	13.49

## IEEE 488 Cables

A variety of cable lengths are offered to ensure that IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices). These cables are standard IEEE 488 with stackable 24-pin GPIB connectors on both ends.



Part No.	Description	Wt. (lbs.)	1	10	25
73154CM	1 meter	0.8	\$36.49	\$32.79	\$29.49
115781CM	2 meter	1.2	37.95	34.19	30.95
115801CM	4 meter	2.0	38.95	36.19	31.95

## Serial Null Modem Cables

- Molded type connectors

- Color: gray

### 181403CM/180697CM Pin outs:

- 1 & 6-4, 2-3, 3-2, 4-6 & 1, 5-5, 7-8, 8-7



### 181438CM Pin outs: 2-2; 3-3;

- 5 & 6-4; 7-5; 8-7; 20-6 & 8

- (Serial printer null modem)

### 180582CM Pin outs: 2-2; 3-3;

- 4-5 & 6; 5-7; 6 & 8-20: 7-8;

- (Serial printer null modem)

### 180742CM Pin outs: 1-4 & 5: 2-2;

- 3-3; 4-6; 5-7; 6-20; 7-8; 8-8



Part No.	Description	Wt. (lbs.)	1	10	50
181403CM	6' DB9 F to DB9 F	0.3	\$5.69	\$5.09	\$4.59
180697CM	10' DB9 F to DB9 F	0.4	6.79	6.09	5.49
181438CM	6' DB25 M to DB9 F	0.4	4.95	4.49	3.95
180582CM	10' DB25 M to DB9 F	0.4	6.69	6.05	5.45
180742CM	10' DB25 F to DB9 F	0.5	7.39	6.65	5.99

## RGB Video Cables

- 75Ω coaxial cable; 6' or 10'
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 white/black vertical, pin 13 gray horizontal
- 5 BNCs to HDDB15-pin male
- Weight: 0.9 lbs.



Part No.	Description	1	10	25
73648CM	6' cable (black)	\$19.95	\$16.99	\$12.75
118068CM	10' cable (black)	23.35	19.85	14.89

## VGA Monitor Cables

- Connects video card to VGA monitor
- IBM PC/XT and higher compatibles
- HDDB15 male to male



Part No.	Description	1	10	100
66173CM	6' monitor cable	\$6.49	\$5.89	\$5.29
148523CM	10' monitor cable	6.95	6.25	5.59

## 9-Pin Monitor Cable

- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- IBM PC/XT and higher compatibles



Part No.	Description	1	10	100
66157CM	6' DB9 M-M	\$4.45	\$3.95	\$3.55

## VGA Monitor Extension Cables

- Extends VGA monitor cable; HDDB15 male-to-female
- IBM PC/XT and higher compatibles

### 134041CM:

- HDDB15 female w/ hex nuts and HDDB15 male w/ thumbscrews

### 66165CM/148531CM:

- Thumb screws on each end



Part No.	Description	1	10	100
134041CM	6' screws/hex nuts	\$4.49	\$3.95	\$3.49
66165CM	6' thumbscrews	6.59	5.95	5.35
148531CM	10' thumbscrews	7.49	6.79	5.99

## DA15 Extension Cables

- Molded connectors
- Straight through
- Thumb screws
- Color: gray (237032CM: black)



Part No.	Description	Length	1	10	100
181286CM	DA15 M-M	6'	\$5.49	\$4.95	\$4.45
181358CM	DA15 M-F	6'	5.49	4.95	4.45
237032CM	DA15 M-F	8'	6.99	5.95	4.45

## Macintosh® Printer Cables

Part No.	Description	1	10	50
10604CM	6' mini DIN8M	\$3.29	\$3.15	\$2.99
130024CM	10' mini DIN8M	5.99	5.39	4.85

Our knowledgeable Tech Support department is ready to answer your questions. Just call us!  
1-800-831-4242



DB25-to-Centronics  
Parallel Printer Cables

28716CM

164777CM

Quantity SAVE

- Molded and fully shielded DB25 male and 36-pin Centronics male connectors
- IBM PC/XT and higher compatibles

Part No.	Description	Wt. (lbs.)	1	10	100
28716CM	6' straight	0.4 ...	\$3.95	\$3.56	\$3.20
223845CM	6' straight†	0.6 ...	11.95	10.95	9.75
123781CM	10' straight⊕	0.6 ...	5.95	5.09	<u>3.79</u>
164777CM	10' rt. angle*	0.7 ...	4.95	4.45	3.95
28708CM	15' straight⊕	0.8 ...	5.95	5.09	<u>3.79</u>
101899CM	25' straight⊕	1.1 ...	5.95	5.06	<u>3.79</u>

† IEEE 1284 \* Centronics right angle

37-Pin Straight Through  
Cable Adapters

- Molded connectors
- Color: gray
- Weight: 0.9 lbs.

Part No.	Description	1	10	100
180611CM	6' DC37 M-M⊕	\$6.95	\$6.29	\$5.65
181294CM	6' DC37 M-F⊕	5.95	5.49	4.95

## Monitor/Mouse/Keyboard Cables

- 6' or 32'
- HDDB15 male/female for monitor, 5-pin DIN male/female for keyboard, and DB9 male/female for mouse



141284CM

Part No.	Description	Wt. (lbs.)	1	10
141284CM	6' cable⊕	1.6	\$22.95	\$19.95
141276CM	32' cable⊕	4.8	39.95	35.95

## Switch Box Adapter Cables

- 177261CM: Male to male non-coiled cable for P/N 79177CM switch box, pg 269
- 114913CM: Male to male coiled cable for P/N 114155CM switch box, pg 269
- 174772CM: Male to male 174908CM/205655CM: Male to male non-coiled
- 112627CM: Male to male non-coiled cable for P/N 79177CM switch box, pg 269



174772CM

Quantity SAVE

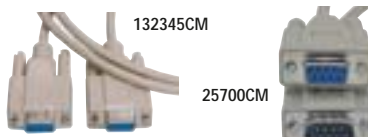


205655CM

Part No.	Description	Length	1	10	50
114913CM	5-pin DIN⊕	5' (gray)	\$4.95	\$4.21	<u>\$3.16</u>
177261CM	6-pin mini DIN⊕	2' (gray)	2.95	2.55	<u>1.89</u>
174772CM	6-pin mini DIN	6' (black)	4.95	4.25	<u>3.19</u>
174908CM	6-pin mini DIN⊕	6' (gray)	5.75	5.15	4.65
112627CM	6-pin mini DIN⊕	10' (beige)	7.95	7.25	6.49
205655CM	6-pin mini DIN⊕	25' (beige)	8.95	7.95	6.95

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email. 1-800-831-4242

## DB9 Extension Cables



132345CM

25700CM

- All lines connected straight through
- 132345CM/196365CM: DB9 female to DB9 female cable with thumbscrews
- 199638CM/25700CM/148515CM: DB9 male to DB9 female cable with thumbscrews
- 181665CM: DB9 male to DB9 male cable

Part No.	Description	1	10	100	1000
132345CM	6' F-F⊕	\$4.95	\$4.49	\$3.95	\$3.49
199638CM	6' M-F (blk)⊕	4.49	3.95	3.49	2.95
25700CM	6' M-F	4.95	4.49	3.95	3.49
196365CM	10' F-F⊕	6.95	6.25	5.59	4.95
148515CM	10' M-F⊕	7.49	6.79	5.99	4.95
181665CM	10' M-M⊕	6.95	6.25	5.59	4.95

## 9-Pin Test Cable

- DB9 M to DB9 F (6')
- Pin outs: 1-3, 2-2, 4-5

Quantity SAVE



Part No.	Description	1	10	100
162915CM	DB9 male to DB9 female	\$2.95	\$2.51	<u>\$1.88</u>

DB9-to-DB25 AT-Adapter  
Serial Cables

- For DB9 serial ports which need to be converted to DB25 serial
- AT and compatibles
- Molded DB9 female to DB25 male connectors



31721CM

Part No.	Description	1	10	100
109583CM	1' serial, beige⊕	\$4.35	\$3.95	\$3.49
189333CM	3' serial, beige⊕	3.95	3.39	<u>2.55</u>
207790CM	4' serial, beige	2.35	2.15	1.95
31721CM	6' serial, beige⊕	3.89	3.55	3.15
191361CM	6' serial, gray	4.39	3.99	3.15
155521CM	10' serial, beige⊕	3.95	3.55	3.15

## DB25 Extension Cables

- All lines connected straight through
- Use to lengthen your standard serial cable or for switch box applications
- Thumbscrews to secure connectors
- Color: gray; except P/Ns 174001CM/175290CM: black\*



67256CM

Part No.	Description	Wt. (lbs.)	1	10	50	100
174001CM	3' M-M⊕*	0.6	\$4.79	\$4.35	\$3.89	\$3.49
401138CM	3' M-M⊕	0.4	4.45	4.25	3.99	3.79
65787CM	6' M-M⊕	0.5	6.49	5.89	5.29	4.89
39538CM	10' M-M⊕	0.7	6.95	6.29	5.05	<u>3.69</u>
179979CM	15' M-M⊕	1.2	6.95	6.26	5.63	5.07
67070CM	25' M-M⊕	1.4	10.95	9.95	8.95	7.95
180435CM	50' M-M⊕	3.6	14.95	13.49	11.95	9.95
164291CM	3' M-F⊕	0.4	4.29	3.89	3.49	2.95
175290CM	3' M-F⊕*	0.4	2.95	2.69	2.25	1.59
163133CM	5' M-F⊕	0.6	5.29	4.75	4.29	3.85
67256CM	6' M-F⊕	0.6	6.45	5.79	5.25	4.69
39511CM	10' M-F⊕	0.7	6.95	6.26	5.63	4.61
177279CM	15' M-F⊕	1.0	9.49	8.55	7.69	6.25
101995CM	25' M-F⊕	1.4	11.95	10.79	9.69	7.95
181201CM	50' M-F⊕	3.2	17.95	14.39	10.79	<u>8.09</u>
224266CM	6' F-F⊕	0.7	4.95	3.95	2.95	2.09

## USB 2.0 Cables

USB-A (M) to  
USB-A (M)USB-A (M) to  
USB-B (M)USB-A (M) to  
USB-A (F)

- Higher transfer rate up to 480Mbps
- Backward compatible w/ USB 1.1 products

## USB-A Male to USB-A Male



Part No.	Description	1	10	25
326473CM	3' cable beige⊕	\$1.55	\$1.39	\$1.29
229681CM	6' cable beige⊕	1.65	1.49	1.39
222033CM	6' cable black⊕	1.65	1.49	1.39
229551CM	6' cable clear⊕	1.65	1.49	1.39
229690CM	10' cable beige⊕	1.89	1.75	1.65
222041CM	10' cable black⊕	1.89	1.75	1.65
229569CM	10' cable clear⊕	1.89	1.75	1.65
229702CM	15' cable beige⊕	2.85	2.59	2.49
222050CM	15' cable black⊕	2.85	2.59	2.49
229577CM	15' cable clear⊕	2.85	2.59	2.49

## USB-A Male to USB-B Male

Part No.	Description	1	10	25
229711CM	3' cable beige⊕	\$1.55	\$1.39	\$1.29
222607CM	3' cable black⊕	1.55	1.39	1.29
229585CM	3' cable clear	1.55	1.39	1.29
229729CM	6' cable beige⊕	1.65	1.49	1.39
222009CM	6' cable black⊕	1.65	1.49	1.39
229593CM	6' cable clear⊕	1.65	1.49	1.39
229737CM	10' cable beige⊕	1.89	1.75	1.65
222017CM	10' cable black⊕	1.89	1.75	1.65
229606CM	10' cable clear⊕	1.89	1.75	1.65
229761CM	15' cable beige⊕	2.85	2.59	2.49
222025CM	15' cable black⊕	2.85	2.59	2.49
229614CM	15' cable clear⊕	2.85	2.59	2.49

## USB-A Male to USB-A Female

Part No.	Description	1	10	25
326481CM	3' cable beige⊕	\$1.55	\$1.39	\$1.29
229770CM	6' cable beige⊕	1.65	1.49	1.39
222068CM	6' cable black⊕	1.65	1.49	1.39
229622CM	6' cable clear⊕	1.65	1.49	1.39
229788CM	10' cable beige⊕	1.89	1.75	1.65
222076CM	10' cable black⊕	1.89	1.75	1.65
229631CM	10' cable clear⊕	1.89	1.75	1.65
229796CM	15' cable beige⊕	2.85	2.59	2.49
222084CM	15' cable black⊕	2.85	2.59	2.49
229649CM	15' cable clear⊕	2.85	2.59	2.49

## Digital Camera USB 2.0 Cables

- Color: black
- Length: 6 ft.
- For use w/ digital cameras, memory card readers, ect.



Part No.	Product No.	1	10
673715CM	USB-A to mini 4-pin	\$2.99	\$2.65
673694CM	USB-A to mini 5-pin	2.75	2.35

## USB 1.1 Cables

USB-A Male to  
USB-B Male

169359CM



Part No.	Description	1	10	25
308726CM	5' cable (black)	\$1.49	\$1.35	<u>\$1.01</u>
169359CM	6' cable	1.79	1.59	1.35



## USB-A Cables with Bracket

- Supports data transfer rates of 12Mbps
- Allows connection of two devices
- Dual USB-A female connectors
- 8" long



144813CM

Part No.	Description	1	10	25
144813CM	Female panel mount	\$3.95	\$3.75	\$3.55
319652CM	Male panel mount	3.95	3.75	3.55

## IEEE 1394 Firewire Cables



175821CM

175839CM

175847CM

Connect your computer to the latest high speed Firewire peripherals.

- IEEE-1394 compliant
- UL approved
- Molded connectors

### 4-pin Male to 4-pin Male

Part No.	Description	1	10	25
222631CM	3' cable black	\$4.99	\$4.45	\$3.95
175821CM	6' cable black	5.59	5.05	4.55
222244CM	10' cable black	6.99	6.25	5.65
222252CM	15' cable black	8.59	7.75	6.95

### 4-pin Male to 6-pin Male

Part No.	Description	1	10	25
222623CM	3' cable black	\$4.99	\$4.45	\$3.95
175839CM	6' cable black	5.59	5.05	4.55
222228CM	10' cable black	6.99	6.25	5.65
222236CM	15' cable black	8.59	7.75	6.95

### 6-pin Male to 6-pin Male

Part No.	Description	1	10	25
222615CM	3' cable black	\$4.99	\$4.45	\$3.95
175847CM	6' cable black	5.59	5.05	4.55
222201CM	10' cable black	6.99	6.25	5.65
222210CM	15' cable black	8.59	7.75	6.95

## USB-to-DB9 Serial Adapter

- USB-A to DB9 male
- Length: 13"
- Supports automatic handshake mode
- Over 230kbps data transfer rate
- 96 byte buffer each for upstream and downstream data flow
- Works with cellphones, PDA, digital cameras, modems and ISDN terminal adapters



Part No.	Description	1	10
387954CM	USB-A to DB9	\$17.95	\$16.15

## Category 6 Network Cables



- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Gold over nickel contacts
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 Category 6 draft 8

### Category 6

Part No.	Length	Color	1	10	50
219707CM	3 ft.	Gray	\$2.79	\$2.69	\$2.56
219715CM	7 ft.	Gray	3.99	3.87	3.68
219723CM	14 ft.	Gray	6.59	6.37	6.05
219731CM	25 ft.	Gray	9.39	8.92	8.47
219740CM	50 ft.	Gray	14.29	13.58	12.90
219854CM	3 ft.	Blue	2.79	2.69	2.56
219862CM	7 ft.	Blue	3.99	3.87	3.68
219871CM	14 ft.	Blue	6.59	6.37	6.05
219889CM	25 ft.	Blue	9.39	8.92	8.47
219897CM	50 ft.	Blue	14.29	13.58	12.90
220003CM	3 ft.	White	2.79	2.69	2.56
220011CM	7 ft.	White	3.99	3.87	3.68
220020CM	14 ft.	White	6.59	6.37	6.05
220038CM	25 ft.	White	9.39	8.92	8.47
220046CM	50 ft.	White	14.29	13.58	12.90
219900CM	3 ft.	Red	2.79	2.69	2.56
219918CM	7 ft.	Red	3.99	3.87	3.68
219926CM	14 ft.	Red	6.59	6.37	6.05
219934CM	25 ft.	Red	9.39	8.92	8.47
219942CM	50 ft.	Red	14.29	13.58	12.90
219803CM	3 ft.	Green	2.79	2.69	2.56
219811CM	7 ft.	Green	3.99	3.87	3.68
219820CM	14 ft.	Green	6.59	6.37	6.05
219838CM	25 ft.	Green	9.39	8.92	8.47
219846CM	50 ft.	Green	14.29	13.58	12.90
219758CM	3 ft.	Black	2.79	2.69	2.56
219766CM	7 ft.	Black	3.99	3.87	3.68
219774CM	14 ft.	Black	6.59	6.37	6.05
219782CM	25 ft.	Black	9.39	8.92	8.47
219791CM	50 ft.	Black	14.29	13.58	12.90
219951CM	3 ft.	Yellow	2.79	2.69	2.56
219969CM	7 ft.	Yellow	3.99	3.87	3.68
219977CM	14 ft.	Yellow	6.59	6.37	6.05
219985CM	25 ft.	Yellow	9.39	8.92	8.47
219993CM	50 ft.	Yellow	14.29	13.58	12.90

## CAT 5e/6 Crossover Cables

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded
- Strain relief RJ45 connectors
- 4-pair • 8P8C • UTP



### CAT 6

679762CM	3' cable RJ45	\$7.95	\$7.15	\$6.29
681096CM	7' cable RJ45	9.95	8.95	7.69

### CAT 5e

Part No.	Description	1	10	100
681109CM	3' cable RJ45	\$2.95	\$2.65	\$2.39
681117CM	7' cable RJ45	4.75	4.45	3.75
302041CM	6' cable RJ45	3.75	3.39	3.05
685812CM	7' cable RJ45 (yellow)	4.75	4.45	3.75
169261CM	10' cable RJ45	6.95	6.25	5.59

## USB-to-Centronics Printer Cable

- Full compliance with the USB spec V.1.0
- USB-A male to 36-pin male centronics connector
- Supports true bidirectional communication
- Applicable to standard and bidirectional printers



**SALE**

Part No.	Description	1	10	25
155352CM	6' USB cable	\$23.75	\$22.56	\$21.43

## USB to Serial Adapter with Prolific Chipset

This USB serial adapter provides an external Plug-and-Play RS-232 port for computers, notebooks, laptops, and handheld computing devices. Provides high-quality serial connections at transfer rates of more than 500kbps.



- Frees existing RS-232 ports for other uses
- Supports RS-232 serial interface, automatic handshake mode, remote wake-up & power management
- Provides a 96-byte buffer for each upstream and downstream data transfer
- Full compliance with USB specification v.1.1
- 7" cable with DB25 male connector and 14" cable with USB-A connector
- Size: 2.7"L x 1.6"W x 0.7"H

**System requirements:** Windows®98/2000, USB host controlled installed in the system

**Includes:** 3.5" software and manual

Part No.	Description	1	5
213006CM	USB-A to serial converter	\$29.95	\$27.95

## Flexible USB Cable and Adapter

FlexUSB™ is a compact, lightweight accessory that bends, rotates, and flexes to your desired angle. It provides a means to position USB devices, allowing you to use it with any computer, even in the most cramped environment. Its unique ratcheting design makes it possible to position your USB devices that are compatible with both Windows® and MAC platforms.



262158CM

262078CM

Part No.	Description	1	5
262078CM	Flexible USB adapter A-M-F	\$10.95	\$9.85
262158CM	Flexible USB cable with A-M to B-M connectors	11.95	10.85

Flexible USB cables and adapters make plugging in cables an ease, especially in tight spots!

## USB Gender Adapters

Part No.	Description	Dimensions	1	10	25
321251CM	USB-A male to USB-A male	1.9"L x 0.6"W	\$2.79	\$2.65	\$2.39
169383CM	USB-A male to USB-B female	1.3"L x 0.4"W	2.69	2.49	2.25
169375CM	USB-A female to USB-B male	1.7"L x 0.6"W	2.69	2.49	2.25
316806CM	USB-A female to USB-A female	1.5"L x 0.7"W	2.69	2.49	2.25
321699CM	USB-B male to USB-B male	2.0"L x 0.4"W	2.79	2.65	2.49
316822CM	USB-B female to USB-B female	1.4"L x 0.7"W	2.69	2.49	2.25



316806CM



316822CM

## Category 5e/5 Network Cables

- UTP
- 8P8C
- 4 pair
- 24 AWG (7 x 43) stranded
- "Snagless" boot
- Color coded for easy wire tracing
- High-flexibility
- Achieve optimum system performance



## Category 5e (350MHz)

Part No.	Length	Color	1	10	100
168292CM	3 ft. ⊕	Gray .....	\$1.79	\$1.49	\$1.39
168305CM	7 ft. ⊕	Gray .....	2.99	2.59	2.39
168313CM	15 ft. ⊕	Gray .....	5.29	4.39	3.99
168321CM	25 ft. ⊕	Gray .....	7.99	6.79	6.39
201777CM	3 ft. ⊕	Red .....	1.79	1.49	1.39
201785CM	7 ft. ⊕	Red .....	2.99	2.59	2.39
201793CM	15 ft. ⊕	Red .....	6.95	5.95	4.45
201806CM	25 ft. ⊕	Red .....	7.99	6.79	6.39
201697CM	3 ft. ⊕	Black .....	1.79	1.49	1.39
201700CM	7 ft. ⊕	Black .....	2.99	2.59	2.39
201718CM	15 ft. ⊕	Black .....	5.29	4.39	3.99
201726CM	25 ft. ⊕	Black .....	7.99	6.79	6.39
201734CM	3 ft. ⊕	Blue .....	1.79	1.49	1.39
201742CM	7 ft. ⊕	Blue .....	2.99	2.59	2.39
201751CM	15 ft. ⊕	Blue .....	5.29	4.39	3.99
201769CM	25 ft. ⊕	Blue .....	7.99	6.79	6.39
201814CM	3 ft. ⊕	Yellow .....	1.79	1.49	1.39
201822CM	7 ft. ⊕	Yellow .....	2.99	2.59	2.39
201831CM	15 ft. ⊕	Yellow .....	5.29	4.39	3.39
201849CM	25 ft. ⊕	Yellow .....	7.99	6.79	6.39

## Category 5 (100MHz)

Part No.	Length	Color	1	10	100
277641CM	6 ft. ⊕	Red .....	\$2.49	\$2.25	\$1.99
281261CM	7 ft. ⊕	Gray .....	2.49	2.39	2.25
203051CM	10 ft. ⊕	Blue .....	2.75	2.48	2.23
277659CM	12 ft. ⊕	Black .....	2.99	2.69	2.45
277667CM	12 ft. ⊕	Yellow .....	2.99	2.69	2.45

## USB Keyboard Adapter

## USB to PS/2

- USB-A female to 6-pin mini DIN male (PS/2)



Part No.	Description	1	10	25
316831CM	USB-A to PS/2 ⊕	\$1.79	\$1.59	\$1.39

## 30-Day Money-Back Guarantee



If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 330.

▲ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
New Sale Lower\$ QtySave

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

JAMECO ValuePro

## Modular Plugs



P = No. of positions  
C = No. of contacts  
W/E = Western Electric type number

\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	W/E	1	10	100	1000
103491CM	4P4C (handset) ⊕	616	*	\$1.11	\$0.99	\$0.89
79290CM	6P4C (RJ11) ⊕	623	*	.12	.11	.095
79273CM	6P6C (RJ11) ⊕	623	*	.22	.195	.18
79281CM	8P8C (RJ45) (for stranded wire) ⊕	641	.35	.28	.24	.20
119343CM	8P8C (RJ45) unshielded (for solid wire) ⊕	—	.49	.44	.35	.28
116610CM	8P8C (RJ45) shielded ⊕	—	1.09	.99	.89	.79
204231CM	8P8C (RJ45) shielded (for STP stranded wire) ⊕	—	1.41	1.36	1.09	.81
116601CM	8P8C (RJ45) shielded (for solid wire) ⊕	—	.99	.89	.80	.72
180646CM	10P10C (for stranded wire) ⊕	—	1.39	1.15	.82	.69

JAMECO ValuePro

## Modular Jacks



- Voltage rating: 150VAC max.
- Contact current rating: 1.5A max. @ 25°C
- Durability: 750 mating cycles
- PC mount

\* W/E = Western Electric type number

Part No.	Description	W/E	1	10	100
199620CM	4P4C (handset) 0.48"W ⊕	—	\$0.36	\$0.33	\$0.247
115128CM	4P4C (handset) 0.395"W ⊕	—	.37	.34	.31
151765CM	6P4C (RJ11) side flange ⊕	AMP	.45	.43	.39
105945CM	6P4C (RJ11) top flange ⊕	623	.62	.56	.42
204206CM	6P4C (RJ11) lead wires ⊕	—	.94	.85	.64
115836CM	6P6C (RJ11) side flange ⊕	—	.74	.67	.59
204177CM	6P6C (RJ11) dual ⊕	—	1.49	1.35	1.19
124038CM	6P6C (RJ11) 6" leads ⊕	—	1.25	1.15	.99
115844CM	8P8C (RJ45) ⊕	641	.48	.44	.40
204214CM	8P8C (RJ45) 0.81"L ⊕	—	1.22	1.11	.833
203449CM	8P8C (RJ45) shielded Pin spacing "A" = 0.055" ⊕	—	1.19	.99	.85

AMP

## In-Line Coupler, Modular Jacks and Plugs

## In-Line Coupler

- Housing: black polyphenylene oxide
- Panel mount thickness: 0.062" nominal
- Terminals: 0.018" diameter phosphor bronze with 50μ" gold over nickel

Part No.	Product No.	Position	1	25	50
524445CM	555052-1	8P8C	\$3.45	\$2.99	\$2.77

## Single Port Modular Jacks

- Meets or exceeds FCC part 68 rules and regulations
- Current rating: 1.5A max. @ 25°C (derated)
- Voltage rating: 150VAC max.
- Housing: polyester 94V-0 rated
- Dielectric withstanding voltage: 1000VACrms
- Contact: 0.014" thick phosphor bronze with 50μ" gold in contact area and 150μ" tin-lead on solder tails over nickel

Part No.	Product No.	Position	1	25	50
524453CM	555153-1	8P8C side entry, shielded low profile, face shield	\$1.33	\$1.26	\$1.20
524488CM	555416-1	8P8C top entry, unshielded	.39	.369	.352
524461CM	555164-1	8P8C side entry unshielded 12.6mm H	.55	.522	.497
524509CM	557969-1	8P8C shielded, top entry	.95	.91	.83
524517CM	558342-1	8P8C right angle shielded	1.75	1.52	1.45

## Unshielded Modular Plugs

- Once piece construction with pre-loaded contacts
- Housing: polycarbonate UL94V-0 rated
- Terminals: 0.014" thick phosphor bronze underplated with 100μ" nickel, plated with 50μ" gold in contact region and gold flash on terminal
- Dielectric withstanding voltage: 1000VAC
- Meets FCC rules and regulations part 68 and TIA/EIA 568A
- Current rating: 15A @ 150VAC
- Insulation resistance: 5000MΩ

Part No.	Product No.	Position	1	25	50
524496CM	5-557315-3	8P8C for round solid cables	\$0.50	\$0.438	\$0.395
524402CM	5-554169-2	8P8C for round stranded cables	.46	.423	.391
524411CM	5-554720-3	8P8C for flat oval solid cables	.50	.475	.428
524429CM	5-554739-3	8P8C for flat oval stranded cables	.46	.423	.399
524541CM	5-569278-3	8P8C for stranded cable, with load bar	.73	.703	.632
524525CM	5-558530-3	8P8C for stranded cable with load bar	.68	.657	.591
524533CM	5-558530-4	8P8C for solid cable with load bar	.69	.658	.592
524550CM	5-569532-3	8P8C for stranded cable, long body	1.65	1.49	1.35





## Keystone-Type Wall Plates

• Size: 2.8"W x 4.5"H

Quantity SAVE

Part No.	No. of ports	Color	1	10	100
195549CM	1	Ivory	\$1.25	\$1.15	\$.86
195557CM	2	Ivory	1.25	1.15	.99
195565CM	3	Ivory	1.25	1.05	.79
195573CM	4	Ivory	1.25	1.05	.79
212978CM	1	White	1.25	1.15	.99
212994CM	2	White	1.25	1.15	.86
212986CM	3	White	1.25	1.15	.99
212960CM	4	White	1.25	1.15	.86
213508CM	Filler	White	.29	.25	.187

195557CM

212960CM

## Keystone RJ-45 & RJ-11 Jacks

### Modular Punchdown Type

- Removable jacks used in wall plates (shown above)
- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 0.63"H x 1.23"D
- RJ45: 8P8C RJ11: 6P6C

212943CM

213516CM

### RJ45

Part No.	Color	1	10	100
195590CM	Red	\$3.75	\$3.55	\$3.19
195602CM	Yellow	<del>\$3.75</del> 3.55	3.24	2.43
195611CM	Green	<del>\$3.75</del> 2.05	1.28	1.15
195629CM	Black	3.75	3.55	3.19
195637CM	Ivory	<del>\$3.75</del> 3.55	3.24	2.43
212951CM	Blue	3.75	3.55	3.19
212943CM	White	3.75	3.55	3.19

### RJ11

Part No.	Color	1	10	100
213524CM	Black	\$3.75	\$3.55	2.66
213516CM	White	3.75	3.55	3.19

## Keystone BNC/F-Type Jacks

- Removable jacks used in wall plates (shown above)
- Clip on for easy installation on wall plates

195645CM

224637CM

Part No.	Description	Color	1	10	100
195645CM	F-Type F to F	Ivory	\$.99	\$.90	\$.82
224637CM	BNC F to F	White	1.55	1.41	1.28

## Network Connectors



### CAT5e Coupler

Part No.	Fig.	Prod. No.	Description	1	10	100
615048CM	1	45-5439	RJ45 female	\$5.39	\$5.05	\$4.79

### Quick LoQ Jack

Part No.	Fig.	Prod. No.	Description	1	10	100
615056CM	2	45-5529	CAT6 white	\$4.15	\$3.89	\$3.49
615064CM	2	45-5537	CAT3/4 ivory	4.15	3.89	2.97
615072CM	2	45-5533	CAT3/4 orange	4.69	4.55	4.49

### 90°, 110 Punchdown Style

615081CM	3	45-5561	CAT5e, orange	\$4.15	\$3.89	\$2.97
615099CM	3	45-5569	CAT5e, white	4.05	3.72	3.57

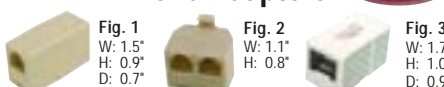
### 180° IDC Toolless Design

615101CM	4	45-5576	CAT5e, yellow	\$3.15	\$2.95	\$2.79
615144CM	4	45-5837	CAT5e, ivory	2.59	2.45	2.29

### Single Modular Jack Boxes

615110CM	5	45-5812	CAT5e, white	\$6.85	\$6.26	\$6.01
615128CM	5	45-5614	CAT5e, ivory	7.09	6.48	6.23

## Modular Couplers and Adapters



Style 1 Reverse wiring for telephone systems

Style 2 Straight wiring for networking/printer sharing



Part No.	Description	Fig.	1	10	100
72207CM	6P4C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C) RJ11	2	\$.99	\$.89	\$.80
71757CM	6P6C modular coupler, Style 1, RJ11	1	.95	.86	.79
135087CM	6P6C modular coupler, Style 2, RJ11	1	.99	.89	.79
181091CM	6P6C male "T" adapter, Style 2. Provides 2 jacks from 1 line. Male modular plug (6P6C), 2 female modular receptacles (6P6C) RJ11	2	.99	.89	.78
118501CM	8P8C modular coupler, Style 1, RJ45	1	1.85	1.75	1.55
135079CM	8P8C modular coupler, Style 2, RJ45	1	1.39	1.25	1.15
153023CM	8P8C modular coupler, Style 2 (for Cat. 5) RJ45	3	7.99	7.19	6.49

## Modular Jack Boxes & Wall Plates



Fig.	W:	H:	D:
Fig. 1	2.8"	4.5"	
Fig. 2	2.8"	4.5"	
Fig. 3	2.8"	4.7"	
Fig. 4	2.0"	2.2"	0.9"
Fig. 5	1.5"	2.4"	1.1"
Fig. 6	2.4"	2.4"	1.1"

Part No.	Description	Fig.	1	10	100
72311CM	6P6C & 8P8C double wall jack plate w/ jacks (beige)	1	\$1.95	\$1.75	1.31
319839CM	8P8C triple wall jack plate w/ jacks (white) (CAT 6)	2	11.19	10.65	7.99
319821CM	8P8C quad wall jack plate w/ jacks (white) (CAT 5e)	3	11.75	11.15	8.36
103464CM	6P4C adhesive jack RJ11 (beige)	4	1.39	1.19	1.09
71984CM	6P6C adhesive jack RJ11 (beige)	4	1.39	1.19	.99
71651CM	8P8C adhesive jack RJ45 (beige)	4	1.95	1.65	1.45
213031CM	8P8C adhesive jack RJ45 (single, white) (CAT 5e)	5	3.29	2.99	2.69
213049CM	8P8C adhesive jack RJ45 (dual, white) (CAT 5e)	6	4.15	3.75	3.39

## Banjo In-Line Modular Adapters

### 4/6/8 Pin 3-In-1

Adapter can be applied to any brand of butt sets, LAN cable testers, or tone generators.



Part No.	Prod. No.	Description	Price
673723CM	MT-8091	In-line modular adapters	\$24.39

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

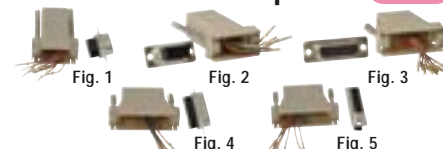
## RS-232-to-RJ11/RJ45 Modular Jack Adapters



Change your RS-232 port to an RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS-232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part No.	Description	1	10	100
204265CM	DB9 M to RJ11 (6P4C)	\$1.95	\$1.66	1.24
66181CM	DB9 M to RJ11 (6P6C)	2.59	2.35	2.09
66190CM	DB9 M to RJ45 (8P8C)	2.89	2.65	2.35
114737CM	DB9 F to RJ11 (6P4C)	1.95	1.79	1.59
66202CM	DB9 F to RJ11 (6P6C)	2.79	2.55	2.29
66211CM	DB9 F to RJ45 (8P8C)	2.99	2.69	2.45
204281CM	DB25 M to RJ11 (6P4C)	2.39	2.15	1.61
66229CM	DB25 M to RJ11 (6P6C)	2.95	2.35	1.99
66237CM	DB25 M to RJ45 (8P8C)	2.99	2.69	2.45
204273CM	DB25 F to RJ11 (6P4C)	1.95	1.75	1.31
66245CM	DB25 F to RJ11 (6P6C)	2.59	1.95	1.39
66253CM	DB25 F to RJ45 (8P8C)	2.89	2.59	2.29

## Telco Adapters



Part No.	Fig.	Prod. No.	Description	1	10	100
614969CM	1	45-5109	6C RJ12 to DB9 M	\$2.31	\$2.31	\$2.21
614977CM	1	45-5110	8C RJ45 to DB9 M	2.31	2.31	2.21
614985CM	2	45-5111	4C RJ11 to DB9 F	2.45	2.31	2.21
614993CM	2	45-5112	6C RJ12 to DB9 F	2.45	2.31	2.21
615005CM	2	45-5113	8C RJ45 to DB9 F	2.45	2.31	2.21
615013CM	3	45-5117	8C RJ45 to DB15 F	3.39	2.73	2.61
615021CM	4	45-5123	8C RJ45 to DB25 M	2.89	2.73	2.61
615030CM	5	45-5127	8C RJ45 to DB25 F	2.85	2.27	2.17

## "EZ" RJ45 Connector

Strip the wire and insert into the plug & pull out the wire on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.

- For solid or stranded wire
- 8P8C plug
- Use standard modular crimping tool

Part No.	Product No.	1	10	100	250
158115CM	RJ45 (8P8C)	\$1.75	\$1.58	\$1.42	\$1.25

## RJ11 Retractable Cable

This RJ11 cable extends up to 8'. And when you pack up, give it a tug and it retracts into its lightweight, rugged case like a windowshade. It's completely tangleproof.



Part No.	Description	Price
233349CM	RJ11 retractable cable	\$2.95



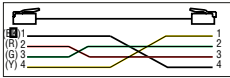
## Modular Telephone/Printer Sharing Cables (Gray)

- RJ11 – 6P2C/6P4C for telephone or network
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dial-up use

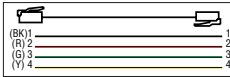


Low Cost Data/Phone Cables

Style 1 – Reverse wiring for telephone systems



Style 2 – Straight wiring for networking/printer sharing



Part No.	Conn. Style	Type	Length	Pricing		
				1	10	100
189940CM	1	RJ11-6P2C	7ft.	\$ .99	\$ .84	\$ .63
196226CM	1	RJ11-6P4C	7ft.	1.69	1.39	1.07
115553CM	2	RJ11-6P4C	7ft.	1.25	1.09	.89
355645CM	2	RJ11-6P4C	14ft.	2.19	1.59	1.38
115545CM	1	RJ11-6P4C	25ft.	2.29	2.09	1.85
201232CM	2	RJ11-6P4C	35ft.	1.95	1.66	1.24
115588CM	1	RJ11-6P6C	7ft.	1.55	1.35	1.15
115617CM	2	RJ11-6P6C	7ft.	2.19	1.99	1.79
355653CM	2	RJ11-6P6C	14ft.	2.75	1.99	1.73
115676CM	2	RJ45-8P8C	7ft.	1.89	1.75	1.49

† Beige

## Surface Mount Boxes

Category 5 and 5e

**SALE**

- RJ45 • 8P8C
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- CAT 5e (except P/N 176073CI)



213014CM

Part No.	Description	1	10	100
176073CM	Single jack (beige)	\$5.75	\$5.25	\$4.95
213022CM	Single jack (white)	5.25	4.77	4.34
213014CM	Dual jack (white)	7.19	6.53	5.93

RJ45-Plug Color Caps (Boots)		204425CM			
Part No.	Color	10	100	500	1000
204409CM	Black	\$ .14	\$ .13	\$ .12	\$ .09
204388CM	Yellow	.18	.16	.14	.105
204353CM	Gray	.14	.13	.12	.09
204361CM	Blue	.18	.16	.14	.105
204425CM	Red	.14	.12	.11	.083
204396CM	Green	.14	.12	.098	.073
204370CM	Ivory	.14	.12	.098	.073



## Retractable Cord

- Length: 24', 12"
- 4 conductors
- 18 AWG (42 x 34)
- Bare copper, rubber insulated, cabled with fillers
- Black neoprene jacket
- Voltage Rating: 300V
- UL listed and CSA certified

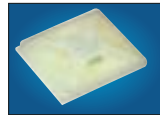


Part No.	Product No.	1	10	100
481895CM	9482	\$25.75	\$24.51	\$23.27

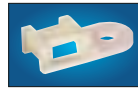
♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Cable Tie Mounts and Cable Clamps

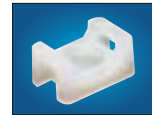
- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2
- Sold in increments of 10, 100 or 1000



182941CM/171213CM  
71407CI/71394CI  
71386CI



70594CM



182300CM/173761CM



182318CI/182376CI



182334CI/182342CI



173711CM/173729CM  
173737CM/134754CM  
173753CM

Part No.	Cross Ref. No.	Description	10	100	1000
182941CM	0505HC-101S	4-way cable tie mount, self adhesive, .75"D	\$ .07	\$ .055	\$ .052
171213CM	HC-100	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.5" square	.15	.13	.094
71407CM	HC-101	4-way cable tie mount, self adhesive, use w/ 0.1"W max., 0.9" square	.18	.16	.13
71394CM	HC-102	4-way cable tie mount, self adhesive, use w/ 0.2"W max., 1.1" square	.23	.19	.14
71386CM	HC-103	4-way cable tie mount, self adhesive, use w/ 0.4"W max., 1.1" square	.25	.19	.13
70594CM	HC-0	4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W	.15	.09	.05
182300CM	0510HC-2	Cable tie mount, 1/4" screw hole, 0.5"D	.17	.15	.14
173761CM	HC-1	Cable tie, saddle type, 0.6"L x 0.4"W	.15	.125	.075
182318CM	0519ATC-17	2-way adjustable tie mount, #6 flat head screw, 0.7"D	.37	.35	.321
182376CM	0519ATC-22	2-way adjustable tie mount, #6 flat head screw, 0.9"D	.29	.261	.222
182334CM	0520FC-1	Cable tie mount, self adhesive, 0.1"D	.17	.15	.113
182342CM	0520FC-2	Cable tie mount, self adhesive, 0.2"D	.15	.135	.122
173711CM	UC0	Cable clamp for 1/8" cable	.08	.027	.02
173729CM	UC0.5	Cable clamp for 3/16" cable	.035	.032	.019
173737CM	UC1	Cable clamp for 1/4" cable	.14	.09	.063
134754CM	B0375	Cable clamp for 3/8" cable	.08	.029	.018
173753CM	UC3	Cable clamp for 1/2" cable	.099	.041	.031

## Cable Ties



### Pan Ty Cable Ties

- Miniature to standard cross sections feature a curved tip for easy threading and handling
- Lowest threading force of any one piece cable tie in the industry
- Natural nylon

### Barb Ty Cable Ties

- Weather resistant nylon has greater resistance to ultraviolet light which damages natural nylon
- Stainless steel locking barb provides infinite adjustability over its entire length
- Black nylon

### Cable Tie Mounts

- Unique cradle design provides maximum stability for cable bundle
- Nylon
- Low profile design keeps bundle close to mounting surface where overhead space is limited

### Cable Tie Label

- Dot matrix
- Self-laminating
- White Tedlar®
- Designed to identify all sizes of wires and cables quickly and economically
- Overlaminates protects legend for clear, permanent identification

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Panduit Cable Ties Offering at  
[www.Jameco.com/Prod/PanduitTies](http://www.Jameco.com/Prod/PanduitTies)

## Nylon Cable ID Ties and Tabs



71061CM: Clear ID tab (0.98" x 0.31")  
 135175CM: Nylon cable tie ID marker

- Sold in increments of 10, 100 or 1000

Part No.	Size	10	100	1000
71061CM	4.0"L x 0.1"W	\$ .085	\$ .08	\$ .072
135175CM	2.0"L x 0.8"W x .02"T	.22	.11	.08

## Round-Type Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Used extensively for protecting cords and to prolong cord life



- Sold in increments of 10, 100 or 1000

Part No.	Cable Type	Lgth (in.)	10	100	1000
182351CM	SVI/SVT	.43	\$ .05	\$ .043	\$ .032
182369CM	SJ/SJT; 16 AWG	.58	.18	.10	.085
182377CM	SJC; 18 AWG	.58	.24	.22	.20

## Bushing Assembly Tool

- For use with strain relief bushings, above



Part No.	Description	1	10	100
73470CM	Bushing tool	\$40.69	\$38.44	\$30.46

For more tools see pages 294 - 301.

Call for OEM pricing

## Nylon Cable Ties

### Standard



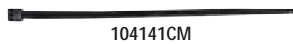
70560CM

- Cable ties made from UL approved Nylon 66
- Temperature range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: clear (except P/N 182676CM white)
- Sold in increments of 100 or 1000

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
70560CM	18⊕	3.1 x 0.10	\$.025	\$.015
126543CM	18⊕	4.0 x 0.10	.02	.014
182676CM	18⊕*	4.75 x 0.13	.03	.025
182650CM	18⊕	5.5 x 0.13	.035	.025
139150CM	18⊕	8.0 x 0.10	.06	.04
182668CM	18⊕	8.0 x 0.13	.075	.05
182684CM	18⊕	8.0 x 0.18	.036	.033
70906CM	40⊕	5.8 x 0.10	.035	.029
190756CM	40⊕	10.0 x 0.14	.12	.086
190772CM	40⊕	11.0 x 0.19	.10	.075
190764CM	40⊕	13.0 x 0.14	.10	.075

\* White

### Weather Resistant



104141CM

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- Color: black
- Sold in increments of 100 or 1000

UV Resistant

Part No.	Tensile Strength (lbs.)	Dimensions (L" x W")	100	1000
139125CM	18⊕	3.0 x 0.90	\$.045	\$.034
104141CM	18⊕	4.0 x 0.10	.044	.029
104133CM	40⊕	5.8 x 0.10	.047	.031
190781CM	40⊕	8.0 x 0.13	.085	.065
190799CM	40⊕	10.0 x 0.14	.10	.09
190801CM	40⊕	13.0 x 0.14	.113	.088

### Cable Tie Assortments

- Tensile strength: 18-50 lbs.

145701CM:  
1000 pcs. (4"L); 10 colors

150412CM:  
500 pcs. (4"L); 300 pcs. (8"L);  
50 pcs. (11"L), 5 colors



Part No.	Wt. (lbs.)	1	10	50
145701CM	0.7⊕	\$9.49	\$8.49	\$7.39
150412CM	1.7⊕	16.49	15.25	14.15

## Contractor Grade Cable Ties

Chances are we have a cable tie for your application! Avery Dennison™ cable ties are available in a wide variety of sizes and in three different materials.

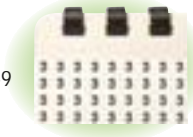
These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



See Our Avery Dennison Cable Ties Offering at [www.Jameco.com/Prod/AveryTies](http://www.Jameco.com/Prod/AveryTies)

## Self Adhesive Wire Marker

- 90 markers per number
- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used after or before terminal



Part No.	Cross Ref. No.	1	10
182262CM	0215WMB-1 ⊕	\$7.09	\$6.45

## 3M Tape Wire Marker

- For marking wires with numerical sequence
- Self adhesive tapes numbered 0-9
- Size: (tape) 96"L x 0.25"W



Part No.	Description	1	10
159231CM	Numerical tape dispenser ⊕	\$30.95	\$27.95

## 3M ScotchCode™ STD-C Wire Marker Tape Dispenser

The 3M™ ScotchCode™ tape dispenser is a compact, carry-along dispenser with ten refillable compartments that hold eight-foot rolls of non-smear polyester tape. Used for marking binder groups, wire or cable, the tapes' high tack, acrylic adhesive resists solvents, oil and water, and adheres firmly to insulation surfaces. An end-loop hooks the dispenser easily to a tool pouch or belt.



Part No.	Description	1	5
652164CM	Marker tape dispenser ⊕	\$33.69	\$32.85

## Cable Markers

- UL approved natural nylon
- 10 piece minimum



Part No.	Size	10	100	1000
182705CM	1.5"L x .75"W ⊕	\$.10	\$.09	\$.08
182713CM	2.5"L x 1.76"W ⊕	.25	.23	.173

## Cable Tie Tool

- 2.5 - 5mm width (of cable)
- Tension adjustable
- Twist to cut surplus tie end
- Spring return action • Metal



Part No.	Cross Ref. No.	1	5	10
182297CM	0302TG-7 ⊕	\$16.99	\$15.99	\$14.99

## Wire Management Enclosure

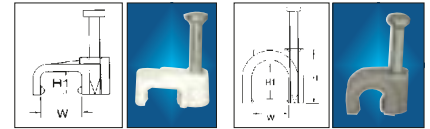
The "NO MORE" wire management solution for workstations, home office, and entertainment systems. Wall mountable, this enclosure prevents wire tangles and clutter, protects wires and connections from accidents, and neatly conceals wires of varying thickness. Made of durable, high impact molded resin. An innovative design that optimizes wire storage capacity.



- Size: 14.1"H x 8.0"W x 2.1"D • Color: black

Part No.	Description	1	10
355872CM	Wire management enclosure	\$17.99	\$17.57

## Nail-In Cable Clips



190828CM

190861CM

- Material: impact resistant PE
- With nails inserted
- Sold in increments of 100 or 1000
- ⊕ Blue Part No. = Limited Quantity Available

SALE

### For telephone cords; white

Part No.	Cross Ref. No.	W x H x H1 (in.)	100	1000
190828CM	NF1.2 ⊕	.24 x .21 x .15	\$.006	\$.005
190836CM	NF1.6 ⊕	.31 x .31 x .20	.006	.005

### For general round cables; gray

Part No.	Cross Ref. No.	W x H x H1 (in.)	100	1000
190861CM	NCO.35N	.14 x .23 x .15	\$.022	\$.02
190887CM	NC1N ⊕	.24 x .35 x .26	.05	.02
190895CM	NC2N	.31 x .45 x .34	.015	.014
190908CM	NC3N	.39 x .53 x .41	.016	.015

## Cable Clips

These nail-in cable clips are designed for use with RG-6 cables.

- For RG-6 type cables
- Includes 1" nail
- Prepackaged in increments of 100



Part No.	Description	1 Pkg	10 Pkgs
295603CM	Single RG-6 cable clip, white	\$3.39	\$2.79
295591CM	Single RG-6 cable clip, black	3.19	2.65
295611CM	Dual RG-6 cable clip, white	<del>\$3.65</del> 3.45	2.84
295620CM	Dual RG-6 cable clip, black	3.65	2.99

## 3M Adhesive Cord Clips

Organize cords behind computers, appliances and entertainment centers. They remove cleanly and may be reused with a new Command™ adhesive strip. Holds wires up to 3/8 inch in diameter. 4 medium clips and 5 small strips per pack.



Part No.	Description	1	10
645861CM	Adhesive cord clips ⊕	\$3.89	\$3.44

## 3M Cord Clips with Command

3M™ Cord Clips with Command™ Adhesive help organize all of those unsightly cords that run from the back of computers, appliances and home entertainment centers. They mount easily to any clean wall or finished wood surface and can be moved just as easily with replacement adhesive strips. 12 clips per pack.



Part No.	Description	1	10
645853CM	Adhesive cord clips ⊕	\$3.49	\$3.12



## Cable Sleeve Clean Cut Expandable Sleeving

- Flame resistant
- Applications: protecting wires, cables and hoses
- Operating temp.: -70°C to 125°C
- Sold in spools of 25'

Part No.	Product No.	Actual/Expanded Dia.	1	10
162157CM	CCPT2X	0.250"/0.440"	\$15.95	\$14.95
162165CM	CCPT3X	0.500"/0.750"	17.95	14.49

## Braided Expandable Sleeving

- Provides continuous abrasion resistance for wires cables and tubing
- Lightweight durable protection
- Highly flexible open weave will not trap heat or humidity
- Rated for use up to 257°F (125°C)
- Self extinguishing meets UL VW-1

Part No.	Description	1	5	10
489416CM	Black 500'	\$613.19	\$582.49	\$553.29

## Grommet Edging

- General purpose material for indoor use up to 122°F (50°C)
- Provided in 0.030" (0.8mm) thick material making it highly flexible
- Use product on straight edges

Part No.	Description	1	5	10
489248CM	Natural 100'	\$29.75	\$27.05	\$25.69

## Clincher Adjustable Releasable Clamp

- Fast and convenient method of securing bundles from 0.19" up to 0.69" dia.
- Please order in increments of 100

Part No.	Description	100	500	1000
489192CM	White	\$361	\$342	\$319

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Wiring Duct

- Light gray
- Lead free PVC

- Wide fender slotted wiring duct
- Standard mounting PC holes
- Size: 1.75"W x 1.62"H
- Sold in 6 foot lengths only

Part No.	Description	1	25
489230CM	Duct	\$31.45	\$26.65
489213CM	Cover	7.05	6.88

## 3M Heat Shrink Tubing Kit

3M™ FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C) continuous operation. FP-301 tubing is typically used as a shrink-fit electrical insulation over cable splices and terminations. It is also used for lightweight wire harness covering, wire marking, wire bundling, component packaging and fire resistant covering.

- 285481CM: Black 102 pieces
  - Assorted pre-shrink sizes: 3/16" (30 pieces); 1/4" (28 pieces); 3/8" (20 pieces); 1/2" (14 pieces); 3/4" (6 pieces); 1" (4 pieces)
  - Pre-cut to 6" lengths
- 645976CM: Assorted Colors 133 pieces
  - 7 colors: black, red, white, yellow, blue, green and clear
  - Assorted pre-shrink sizes: 3/32" (35 pieces); 1/8" (28 pieces); 3/16" (21 pieces); 1/4" (21 pieces); 3/8" (14 pieces); 1/2" (14 pieces)
  - Pre-cut to 6" lengths

Part No.	Description	1	5	10
285481CM	Black 102-pc. kit	\$56.95	\$53.70	\$50.99
645976CM	Colors 133-pc. kit	56.95	53.70	50.99

## Raychem Heat Shrink Tubing

- Flexible
- Shrink temp.: 90°C
- Material: cross linked polyolefin
- 2:1 shrink ratio
- Splash protection

### DWP-125 – Double Wall

- Flexible, high shrink ratio, adhesive lined

### RNF-100 – Single Wall

- Flexible, flame-retardant, general purpose

### RW-175 – Single Wall

- High-temperature, chemical resistant

### TMS Series – Military Grade

- Military specification material and print performance

### TAT Series – Dual Wall

- Adhesive lined, flexible

### Versafit – Single Wall

- Highly flame-retardant, very flexible, low shrink temp.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Raychem Heat Shrink Offering at [www.Jameco.com/Prod/RaychemHST](http://www.Jameco.com/Prod/RaychemHST)

## Polyolefin Heat Shrink Tubing

Insulation from environment and resistance from water fungus and UV light. Use for general purpose insulation and repair, wire and cable harnessing/bundling, cable and connector protection, and wire and tubing splicing and connecting.

- Operating temp: -55°C to 135°C
- Shrinkage ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)
- Volume resistivity: 10<sup>14</sup>Ω-cm
- Length: 4 ft.
- Color: black

Part No.	Product No.	Min./Max. ID (ins.)	1	5	25
419101CM	FIT221B-3/64	.046/.023	\$0.61	\$0.55	\$0.53
419127CM	FIT221B-1/16	.063/.031	.62	.56	.55
419143CM	FIT221B-3/32	.093/.046	.66	.59	.58
419160CM	FIT221B-1/8	.125/.062	.71	.64	.63
419186CM	FIT221B-3/16	.187/.093	.86	.77	.76
419207CM	FIT221B-1/4	.250/.125	1.09	.97	.96
419223CM	FIT221B-3/8	.375/.187	1.21	1.08	1.07
419240CM	FIT221B-1/2	.500/.250	1.37	1.22	1.21
419266CM	FIT221B-3/4	.750/.375	2.05	1.80	1.79
419282CM	FIT221B-1	1.00/.500	3.05	2.74	2.73

## Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black

### Polyolefin Tubing

- Shrink temp: 90°C
- Only sold in 10' & 100' lengths

Part No.	Dia. Before (mm)	Length (ft.)	1	25
644834CM	0.12" (3)	10	\$1.19	\$1.13
644851CM	0.12" (3)	100	10.49	9.99
644869CM	0.16" (4)	10	1.39	1.29
644877CM	0.16" (4)	100	12.49	11.85
644906CM	0.20" (5)	10	1.55	1.47
644914CM	0.20" (5)	100	14.99	14.25
644931CM	0.24" (6)	10	1.69	1.64
644949CM	0.24" (6)	100	16.49	15.67
644957CM	0.31" (8)	10	1.89	1.79
644965CM	0.31" (8)	100	17.99	17.49
644973CM	0.43" (11)	10	2.79	2.69
644981CM	0.43" (11)	100	24.99	23.75
644990CM	0.59" (15)	10	3.69	3.49
645001CM	0.59" (15)	100	35.99	34.19

### PVC Flat Film

- Shrink temperature: 175°C
- Temperature range: -45°C to +125°C
- \* Precut 39" length; sold as 1 increment

Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1*	10*	100*
70631CM	5/16"	1/4"	1/8"	\$1.69	\$1.55	\$1.16
70623CM	1/2"	5/16"	3/16"	1.69	1.44	1.08

### Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Flame retardant
- Shrink temp: 90°C
- Temperature range: -45°C to +125°C
- \* Precut 39" length (1 meter); sold as 1 increment

Part No.	Before Dia. (mm)	1*	10*	100*
71327CM	.059" (1.5)	\$0.55	\$0.46	\$0.41
71870CM	.079" (2.0)	.55	.45	.39
71280CM	.098" (2.5)	.69	.59	.54
72063CM	.197" (5.0)	.89	.76	.57
216477CM	.275" (7.0)	.99	.89	.79
226245CM	.375" (9.5)	1.09	.98	.88



## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com)



JAMECO ValuePro

## Audio/Video Cables and Adapters

### RCA Cables

Part No.	Description	1	10	25
228443CM	3' stereo RCA (2) male to (2) male plugs, gold plated	\$1.49	\$1.39	\$1.29
183311CM	4' RCA male to male plug (black)	.99	.89	.79
206973CM	4' RCA male to male plug (yellow)	.99	.89	.79
106374CM	6' RCA male to male plug	1.19	1.02	.94
228419CM	6' mono RCA male plug to female jack	1.65	1.45	1.25
228486CM	6' RCA stereo (2) male plugs to (2) female jacks	1.25	1.15	1.05
228451CM	6' RCA stereo (2) male to (2) male plugs, gold plated	1.79	1.69	1.59
228401CM	6' RCA stereo (2) male plugs to 3.5mm stereo male plug	1.55	1.39	1.25
228427CM	10' RCA female jack to male plug	2.35	1.95	1.79
29348CM	10' RCA male to male plug (yellow)	1.69	1.55	1.35
228460CM	12' RCA stereo (2) male to (2) male plugs, gold plated	2.09	1.89	1.75
225980CM	12' RCA (3) male to (3) male plugs, gold plated	4.49	3.89	2.89
225998CM	20' RCA (3) male to (3) male plugs, gold plated	7.99	6.79	5.09
228435CM	25' mono RCA male to male plug, nickel plated	2.19	2.09	1.99
228478CM	25' RCA stereo (2) male to (2) male plugs, gold plated	2.39	2.29	2.19

### Video/Audio Patch Cables

Part No.	Description	1	10	25
228216CM	3' stereo video patch cable, gold plated	\$1.19	\$1.13	\$1.07
228574CM	25' stereo video patch cable, gold plated	6.99	6.29	5.65
228582CM	50' stereo video patch cable, gold plated	12.59	11.35	10.19

JAMECO ValuePro

## S-VHS Cables and Adapters

Low-loss fully shielded Super-VHS cables, 4-contact mini DIN plus S-VHS cable and dual-RCA plug stereo cables.

- Fully-molded color coded gold RCA connectors
- Flexible black PVC jacket
- Applications: home theaters, DSS receivers, Super-VHS VCRs, camcorders, and DVD players

228558CM/228566CM: 95% spiral wound shield S-VHS/audio conductors

Part No.	Description	1	10	25
228591CM	6' S-VHS video cable, gold plated	\$2.15	\$1.95	\$1.79
228558CM	6' S-VHS audio-video cable, gold plated	12.95	11.65	10.49
228566CM	12' S-VHS audio-video cable, gold plated	14.95	13.45	12.15
228603CM	12' S-VHS video cable, gold plated	2.65	2.35	2.10
228611CM	25' S-VHS video cable, gold plated	4.05	3.85	3.65
229809CM	S-video 4-pin mini DIN female to female jack	2.85	2.59	2.29
229391CM	S-video male plug to RCA video female jack	5.39	4.85	4.39
295881CM	S-video female jack to RCA video male plug	5.39	4.85	4.39
303351CM	S-video male plug to RCA video female jack	5.39	4.85	4.39

### Other Manufacturers — Great Deals

682662CM	S-video M-M plug 6'	\$1.95	\$1.79	\$1.59
683075CM	S-video M-RCA female jack adapter	4.95	4.49	3.59

### BNC To RCA Cable

Fully molded nickel connectors. Used for displays that requires a single BNC connection from a PAL/NTSC video source

Part No.	Description	1	10	50	100
683059CM	RG-59 BNC to RCA cable	\$3.95	\$3.49	\$2.95	\$2.19

www.Jameco.com

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.



### 3.5mm Audio Patch Cables

Part No.	Description	1	10	25
319206CM	27' 3.5mm mono male to male plug	\$1.09	\$ .94	\$ .89
326511CM	1' 3.5mm stereo male to male plug	1.75	1.59	1.39
664288CM	3' 3.5mm stereo male to male plug (black)	1.09	.99	.75
326529CM	6' 3.5mm stereo male to male plug (green/blue)	1.39	1.18	.89
228494CM	6' 3.5mm stereo male to male plug (black)	1.39	1.19	.99
228515CM	6' 3.5mm stereo male plug to female jack	1.49	1.35	1.25
228507CM	12' 3.5mm stereo male to male plug (black)	1.69	1.49	1.29
228523CM	12' 3.5mm stereo male plug to female jack	1.65	1.49	1.35

JAMECO ValuePro

## 3.5mm Female Jacks and Male Plugs



- Threaded screw on housing
- 1mm diameter solder eyelets
- Shield crimp tabs

231159CM/231167CM: With spring strain relief

Part No.	Cross Ref. No.	Description	1	10	100	1000
109495CM	PJ035PM	Mono F jack, 3.5mm hole size	\$ .45	\$ .40	\$ .36	\$ .27
165729CM	PJ035A	Mono F jack, 3.5mm hole size	.69	.59	.49	.39
101151CM	PJ1035	Mono male plug, plastic	.49	.38	.35	.29
147344CM	PJ1035L	Mono male plug, plastic	.49	.38	.35	.29
231159CM	AP-336	Mono male plug, metal	1.25	1.19	1.09	.95
231175CM	AP-340	Stereo male plug, plastic	.55	.43	.36	.32
231167CM	AP-343	Stereo male plug, metal	1.79	1.60	1.45	1.30

## Jameco ValuePro™ Products: A Great Way to Save!

Jameco's ValuePro line of passive, electromechanical and interconnect products are high-quality electronic components, and they're guaranteed to be at the lowest prices you'll find! In fact, if you find a lower print-advertised price, we'll beat it by another 10%, right down to our cost.

No more high-priced brand markup... no more costly layers of distribution... no more restrictive franchise agreements that hold prices artificially high.

Instead, Jameco cuts out the costly markups and layers of distribution and sells its products to you! Now you can put the savings back into your company.

**Quantity SAVE**

## Audio Adapters and Cables



### RCA Audio Adapters

Part No.	Description	1	10	25	100
228283CM	RCA female jack to mono 1/4" male plug	\$ .99	\$ .89	\$ .69	\$ .55
228312CM	RCA male plug to 1/4" mono female jack	1.25	1.10	.79	.69
228267CM	RCA female to female jack coupler, gold plated	.95	.79	.55	.45
159441CM	RCA female to female jack coupler, metal	1.15	.99	.87	.65
228339CM	RCA F jack to 3.5mm mono M plug, gold plate	.75	.68	.62	.56
228291CM	RCA F jack to 3.5mm mono M plug, nickel plated	.59	.54	.49	.45

### RCA Y-Cables

139037CM	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
682793CM	6' Y-cable 1/8" stereo M plug to (2) RCA mono M plugs	2.29	2.09	1.89	1.70
228371CM	6' Y-cable (2) RCA M plugs to RCA F jack	.99	.89	.80	.72
228355CM	6' Y-cable RCA M plug to (2) RCA F jacks	1.29	1.15	1.06	.79
228380CM	6' Y-cable (2) RCA F jacks to 3.5mm stereo plug	1.95	1.76	1.59	1.19

### 3.5mm Audio Adapters

Part No.	Description	1	10	25	100
228275CM	3.5mm stereo female to female jack	\$ .41	\$ .37	\$ .34	\$ .32
309665CM	3.5mm stereo F jack to 3.5mm mono M plug	.95	.78	.61	.457
228304CM	3.5mm stereo M plug to (2) 1/4" stereo F jacks	.93	.84	.77	.70
228339CM	3.5mm mono M plug to RCA F jack, gold plated	.75	.68	.62	.56
228291CM	3.5mm mono M plug to RCA F jack, nickel plate	.59	.54	.49	.45

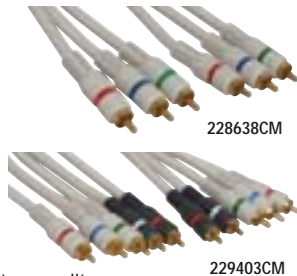
### 3.5mm Y-Cables

139037CM	5' Y-cable 1/8" stereo M plug to (2) RCA M plugs	\$2.25	\$1.99	\$1.79	\$1.61
228398CM	6' Y-cable (2) 3.5mm stereo female jacks to 3.5mm stereo male plugs	1.95	1.65	1.35	1.25
228380CM	6' Y-cable (2) RCA F jacks to 3.5mm stereo M plug	1.95	1.76	1.59	1.19

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## Component Video and Audio Cables

- Low-loss 75Ω oxygen-free copper center conductors and foam dielectric provide maximum signal transfer bandwidth for improved picture quality and performance
- Corrosion resistant, precise 24k gold-plated connectors ensure long lasting quality
- Fully molded color coded connectors attached to an ultra-flexible PVC jacket provide excellent strain relief, easy installation, and identification
- 100%, 0.012mm aluminum-polyester foil shielding and spiral-wound copper-braid shielding provides clear, noise-free, vivid picture quality



Part No.	Description	1	2	5
228620CM	6' component video RGB cable	\$9.99	\$8.99	\$7.96
228638CM	12' component video RGB cable	19.95	17.95	16.16
228646CM	25' component video RGB cable	25.95	23.36	21.02
229403CM	6' component video RGB and stereo audio cable	14.95	13.46	12.11
229411CM	12' component video RGB and stereo audio cable	25.95	23.36	21.02
229420CM	25' component video RGB and stereo audio cable	29.95	26.96	23.86

## RG-6/RG-59 75Ω Coaxial Cables



Type	Length (ft.)	Part No. (Black)	Part No. (White)	1	5
RG-6	3	286977CM	287232CM	\$1.69	\$1.59
RG-59	3	85585CM	—	1.05	.95
RG-6	6	287101CM	287241CM	2.29	2.15
RG-6	12	287128CM	287259CM	3.69	3.49
RG-6	25	287152CM	287267CM	6.99	6.65
RG-6	50	287179CM	287275CM	13.49	12.75
RG-6	75	287208CM	287291CM	18.99	18.15
RG-59	75	355670CM	—	17.95	17.05
RG-6	75	297668CM	—	14.69	13.99
RG-6	100	287224CM	287304CM	24.99	23.75

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## RCA Jacks

**Quantity SAVE**



- Standard RCA jacks for audio and video signals

Part No.	Fig.	Description	Dimensions (WxDxH)	1	10	100	1000
220581CM	1	PCB mount, white	.44" x .56" x .48"	\$ .45	\$ .31	\$ .28	\$ .22
220556CM	1	PCB mount, red	.44" x .56" x .48"	.45	.31	.28	.22
220572CM	1	PCB mount, black	.44" x .56" x .48"	\$ .45	.41	.277	.256
220564CM	1	PCB mount, yellow	.44" x .56" x .48"	\$ .45	.41	.277	.256
112476CM	1	PCB mount, red	.44" x .58" x .48"	.39	.35	.31	.19
169501CM	2	PCB mount, black	.40" x .85" x .50"	.39	.35	.32	.26
237016CM	3	PCB mnt., 2x3 grid, rd/wt/yw	2.0" x .45" x 1.10"	.89	.79	.69	.52
159484CM	4	Panel mount, black	.84"W x .38"H	.49	.39	.33	.24
172339CM	4	Panel mount, red	.84"W x .38"H	.49	.39	.31	.23
319231CM	5	Panel mnt., 1x2 grid, rd/wt	2.1" x .48" x .78"	.79	.69	.65	.62
319249CM	5	Panel mnt., 1x4 grid, rd/bk	2.9" x .48" x .98"	1.19	.99	.94	.89
319257CM	6	Panel mnt., 2x2 grid, rd/wt	2.0" x .48" x 1.38"	1.17	.98	.68	.51
319265CM	6	Panel mnt., 2x3 grid, rd/wt	2.3" x .48" x 1.41"	1.29	1.15	1.09	.82
319071CM	6	Panel mnt., 2x4 grid, rd/bk	3.0" x .49" x 1.40"	1.39	1.19	1.13	1.07

## RCA Plugs

- High-quality plastic and metal housing RCA plugs



### Gold plated metal housing w/ spring strain relief for 6.7mm cables

Part No.	Description	1	10	25	100
229876CM	Black	\$1.89	\$1.69	\$1.55	\$1.39
229868CM	Red	1.89	1.69	1.55	1.39
229884CM	White	1.89	1.69	1.55	1.39
230287CM	Yellow	1.89	1.69	1.55	1.39

### Plastic screw-on cover w/ integral cable protection

229921CM	Black (5 pk)	\$1.15	\$1.05	\$ .91	\$ .68
229930CM	Red (5 pk)	1.15	1.05	.91	.85
229913CM	White (5 pk)	1.19	1.09	.95	.89
229892CM	Yellow (5 pk)	1.19	1.09	.95	.89

For BNC Coax Cables see page 155.



Switchcraft®

Lower\$\$\$

## Audio Plugs and Jacks



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281869CM	750R	1	3.5mm mono audio plug, plastic	14.0mm x 41.5mm x 5.7mm ID	\$2.49	\$2.17	\$1.99	\$1.81
281834CM	41R	2	3.5mm audio jack	7.8mm x 5.9mm	1.29	1.22	1.15	1.09
297019CM	125R	3	3.5mm mono jack, metal	31.75mm x 10.3mm Dia.	5.19	4.54	4.08	4.01
296930CM	42AR	11	3.5mm mono phono audio jack, metal	15.9mm x 12.7mm Dia.	1.75	1.60	1.52	1.48
297035CM	142AR	4	3.5mm mono jack, plastic	21.03mmL x 9.52mmW x 12.7mmH	3.19	2.93	2.74	2.55
297297CM	850R	5	2.5mm mono phono audio plug, plastic	25.8mm x 6.35mm Dia.	2.99	2.91	2.84	2.76
297625CM	TR2AR	6	2.5mm mono audio jack, metal	12.6mm x 8.2mm Dia.	2.75	2.45	2.29	2.11
281789CM	297R	7	1/4" stereo phone audio plug, metal	73.7mm x 7.6mm ID	4.59	3.82	3.19	2.91
281771CM	280R	8	1/4" mono phone audio plug, metal	73.7mm x 7.6mm ID	3.15	2.82	2.58	2.36
281762CM	267R	9	1/4" stereo phone audio plug, plastic	73.7mm x 7.6mm ID	4.25	3.22	2.95	2.69
281754CM	250R	10	1/4" mono phone audio plug, plastic	73.7mm x 7.6mm ID	2.55	2.39	2.13	1.94
281746CM	12BR	11	1/4" stereo phone audio jack	14.7mm x 9.1mm Dia.	1.49	1.39	1.32	1.24
281738CM	11R	12	1/4" mono phone audio jack	12.8mm x 9.1mm Dia.	1.39	1.29	1.19	1.15
296892CM	12AR	11	1/4" mono phono audio jack, metal	31.7mm x 9.4mm Dia.	1.79	1.43	1.33	1.26
296905CM	13BR	11	1/4" mono phono audio jack, metal	30.6mm x 9.4mm Dia.	4.69	4.24	4.01	3.20
296956CM	70R	8	1/4" mono phono audio plug, metal	84.8mm x 9.7mm ID	6.79	5.48	4.93	4.44
297001CM	121	13	1/4" mono phono audio jack, metal	63.5mm x 12.7mm Dia.	7.15	5.87	5.22	4.75
297043CM	151R	14	1/4" mono phono audio jack, metal	57.15mm x 15.87mm Dia.	5.99	4.65	4.30	4.25
297060CM	170R	15	1/4" mono phono audio jack, metal	69.4mm x 17.46mm Dia.	7.89	5.99	5.58	5.32
297107CM	226R	16	1/4" mono phono audio jack, RA, metal	46.4mm x 15.9mm Dia.	3.89	3.70	3.23	2.93
296913CM	14BR	11	1/4" stereo phono audio jack, metal	31.6mm x 9.4mm Dia.	5.19	4.79	4.55	4.31
297051CM	152BR	14	1/4" stereo phono audio jack, metal	57.15mm x 15.87mm Dia.	5.75	5.11	5.02	4.89
297158CM	290R	17	1/4" stereo phono audio jack, metal	42.9mm x 12.7mm Dia.	6.19	4.78	4.38	4.16
297123CM	236R	16	1/4" stereo phono audio jack, RA, metal	46.4mm x 15.9mm Dia.	4.89	4.83	4.43	4.11
297140CM	238R	18	1/4" stereo phono audio jack, RA, metal	41.28mm x 19.84mm Dia.	5.55	5.30	4.95	4.70
296972CM	111R	19	1/4" mono phono audio jack, plastic	34.8mm x 15.87mm Dia.	1.45	1.31	1.25	1.21
297537CM	N111R	19	1/4" mono phono audio jack, plastic	34.8mm x 15.87mm Dia.	1.69	1.54	1.47	1.43
302543CM	240R	10	1/4" mono phono audio jack, black	78.3mm x 7.5mm ID	2.99	2.72	2.59	2.55
297115CM	228R	20	1/4" mono phono audio jack, RA, metal	42.1mm x 25.4mm Dia.	4.95	4.76	4.44	4.17
296981CM	112BR	19	1/4" phono audio jack, 3C, plastic	34.8mm x 15.87mm Dia.	1.59	1.41	1.38	1.33
297027CM	131R	13	1/4" phono audio jack, 3C, plastic	63.5mm x 12.7mm Dia.	10.49	7.82	6.88	6.43
297271CM	515R	21	1/4" jack cover	27.2mm x 21.9mm	7.15	6.95	6.67	6.38



Fig. 10



Fig. 11



Fig. 12



Fig. 13

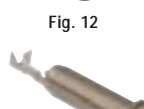


Fig. 14



Fig. 15

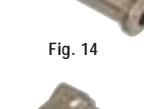


Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21

Switchcraft®

## Power Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281842CM	712AR	22	2.5mm DC power jack, panel mount	15.8mm x 7.5mm Dia.	\$2.05	\$2.02	\$1.98	\$1.88
281851CM	722AR	22	2.1mm DC power jack, panel mount	15.1mm x 7.5mm Dia.	2.09	1.94	1.87	1.80
297588CM	RAPC722R	24	2.0mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD	.85	.77	.71	.68
297561CM	PC722AR	23	2.0mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.65	2.39	2.35	2.29
297570CM	RAPC712R	24	2.5mm x 5.5mm DC pwr. jack, RA	10.9mmH x 8.8mmW x 14.3mmD	.86	.77	.71	.68
297553CM	PC712AR	23	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	2.99	2.77	2.59	2.53
297529CM	L712AR	25	2.5mm x 5.5mm DC power jack, metal	23.3mm x 11.0mm Dia.	3.75	3.50	3.05	2.75
281877CM	760R	26	2.5mm x 5.5mm DC power plug, plastic	9.6mm x 36.3mm x 5.7mm Dia.	2.15	1.94	1.76	1.66
297617CM	S760R	26	2.1mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	2.25	2.09	2.04	2.03
297289CM	761KR	27	2.5mm x 5.5mm DC power plug, plastic	25.4mm x 9.5mm Dia.	3.99	3.59	3.47	3.35



Fig. 22



Fig. 23



Fig. 24



Fig. 25



Fig. 26



Fig. 27

NEUTRIK

## Audio Connectors

- Adapters
- Cable connectors
- Jacks
- Male and female



**XLR Phone Adapters and Jacks**  
**XLR Lockable Speaker Connectors**

**BNC Connectors**  
**1/4" Professional Phone Plugs**

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Switchcraft is a leading component supplier for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries.

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**Jack Covers/Receptacles/Pushbuttons**

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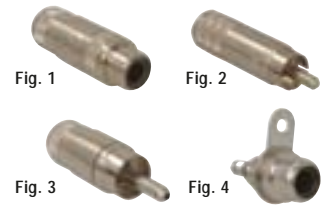


Switchcraft is a leading supplier and manufacturer of electronic and electromechanical components for the audio, video, telecommunication, computer, medical, military, appliance, transportation and instrumentation industries. Their components include jacks, connectors, jack panels, plugs, jackfields, patch cords, power plugs, switches, EAC power receptacles and molded cable assemblies.

## Switchcraft®

### RCA Plugs and Jacks

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
281826CM	3503R	1	RCA phono audio jack, metal	43.2mm x 7.6mm ID	\$2.59	\$2.52	\$2.45	\$2.38
281818CM	3502AR	2	RCA phono audio plug, nickel	42.4mm x 7.3mm ID	1.85	1.66	1.54	1.40
281800CM	3502R	3	RCA mono phono audio plug, metal	33.8mmL x 5.0mm ID	1.75	1.37	1.21	1.10
281797CM	3501FPR	4	RCA phono audio jack, metal	16.3mm x 6.0mm Dia.	1.29	1.00	.97	.93



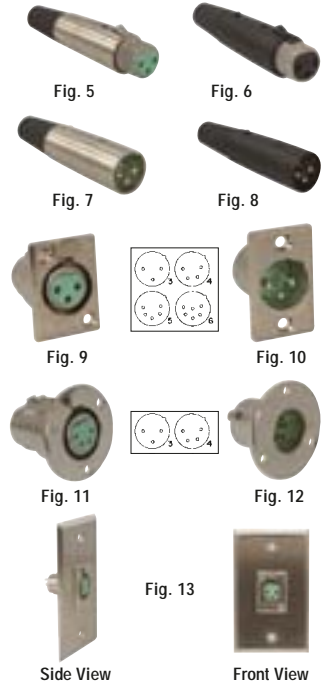
## Switchcraft®

Lower \$\$\$

### Microphone (XLR) Connectors

Quantity SAVE

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
277026CM	A3F	5	3-pin female, metal	82.5mm x 5.3mm Dia.	\$4.49	\$3.99	\$3.58	\$3.26
277034CM	A3FB	6	3-pin female, black	82.0mm x 5.3mm Dia.	5.19	3.99	3.65	3.33
281560CM	A3M	7	3-pin male, metal	70.3mm x 5.3mm Dia.	3.79	3.17	2.83	2.58
281578CM	A3MB	8	3-pin male, black	70.3mm x 6.1mm Dia.	4.59	3.53	3.24	2.95
297422CM	C3F	11	3-pin female, metal, panel mount	36.9mm x 36.5mm Dia.	7.89	7.17	6.99	6.95
297431CM	C3M	12	3-pin male, metal, panel mount	30.2mm x 36.3mm Dia.	5.65	4.28	3.97	3.92
281640CM	D3F	9	3-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.89	4.50	4.13	3.75
281658CM	D3M	10	3-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	4.35	3.33	3.06	2.78
281720CM	J3FS	13	3-pin female, wall plate	69.9mmW x 114.3mmH	25.65	23.09	20.78	15.58
281586CM	A4F	5	4-pin female, metal	82.0mm x 5.5mm Dia.	7.25	5.56	5.09	4.64
281594CM	A4M	7	4-pin male, metal	71.2mm x 4.8mm Dia.	4.59	4.08	3.68	3.32
297449CM	C4F	11	4-pin female, metal, panel mount	36.9mm x 36.5mm Dia.	12.15	9.11	8.35	7.97
297457CM	C4M	12	4-pin male, metal, panel mount	30.2mm x 36.3mm Dia.	5.99	5.46	5.16	4.86
281666CM	D4F	9	4-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	8.35	6.38	5.85	5.32
281674CM	D4M	10	4-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	5.19	3.96	3.63	3.31
281607CM	A5F	5	5-pin female, metal	82.0mm x 4.7mm Dia.	12.09	9.06	8.31	7.55
281615CM	A5M	7	5-pin male, metal	70.2mm x 5.3mm Dia.	9.35	7.18	6.58	5.92
281682CM	D5F	9	5-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	13.39	10.32	9.46	8.55
281691CM	D5M	10	5-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	9.25	7.01	6.43	5.84
281623CM	A6F	5	6-pin female, metal	80.2mm x 4.6mm Dia.	10.79	10.25	9.45	8.32
281631CM	A6M	7	6-pin male, metal	70.5mm x 4.5mm Dia.	9.55	8.78	8.15	7.51
281703CM	D6F	9	6-pin female, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	18.95	14.19	13.02	11.83
281711CM	D6M	10	6-pin male, metal, panel mount	27mmW x 36.3mmH x 30.6mmD	12.35	11.80	9.49	7.12



Interconnects

## Switchcraft®

### DIN Connectors

Part No.	Product No.	Fig.	Description	Dimensions	1	10	25	100
296948CM	61HA5F	14	5-pin DIN receptacle, panel mount	20mm x 17mm Dia.	\$4.09	\$3.28	\$3.02	\$2.93
296876CM	05BL5M	15	5-pin DIN plug, metal	59.2mm x 13.6mm Dia.	4.99	4.57	4.11	3.91
296884CM	05GM5M	16	5-pin DIN plug, gray plastic	63.3mm x 13.6mm Dia.	4.55	3.72	3.28	3.12



### Microphone (XLR) Connectors



Part No.	Cross Ref. No.	Description	1	10
319011CM	250-710	3-pin male microphone, metal	\$2.35	\$2.17
319003CM	250-720	3-pin female microphone, metal	2.29	2.20
319046CM	250-700	3-pin male microphone, metal, panel mount	3.25	2.79
319038CM	250-705	3-pin female microphone, metal, panel mount	4.15	3.39



### Professional Microphone (XLR) Cables and Adapters

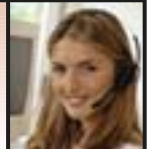
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Part No.	Cross Ref. No.	Description	1	10
305251CM	251-310	3-pin female to female gender changer	\$7.49	\$6.99
305200CM	251-320	3-pin male to male gender changer	7.49	6.99
305285CM	251-330	1/4" jack to 3-pin female XLR adapter	<del>\$8.95</del> 8.25	<del>6.15</del> 6.15
305277CM	251-340	1/4" jack to 3-pin male XLR adapter	<del>\$7.95</del> 7.05	<del>5.29</del> 5.29
305293CM	255-290	1/4" jack to 3-pin XLR female cable, 20'	10.39	9.85
307694CM	255-293	1/4" jack to 3-pin XLR female cable, 60'	20.95	19.85

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- Voltage rating: 600V (UL)
- Accepts type III+; high-current type II, and subminiature coax contacts



NEW

### Square Flange Receptacle w/ Mounting Holes

Part No.	Product No.	Arr.	Desc.	1	10
421382CM	206036-1♣	17-16	Std sex	\$2.05	\$1.87
495146CM	206043-1♣	17-14	Rev sex	2.05	1.87
495171CM	206151-1♣	23-37	Std sex	2.35	2.14
495200CM	206306-1	23-37	Rev sex	2.49	2.33
495218CM	206430-1	11-4	Rev sex	1.99	1.86
495234CM	206705-1♣	13-9	Std sex	1.95	1.79
495251CM	206838-1♣	23-24	Std sex	2.45	2.32
495306CM	211769-1♣	17-9	Rev sex	3.29	3.12
495162CM	206061-1♣	11-4	Std sex	1.85	1.68
495285CM	211398-1♣	13-7	Rev sex	2.95	2.67
495293CM	211401-1♣	13-7	Std sex	3.25	3.09

### Free Hanging Receptacle

Part No.	Product No.	Arr.	Desc.	1	10
495314CM	206036-3♣	17-16	Std sex	\$2.05	\$1.87
495154CM	206043-3♣	17-14	Rev sex	2.49	2.36
495189CM	206151-2♣	23-37	Std sex	2.45	2.33
495197CM	206153-1♣	11-4	Std sex	1.89	1.71
495091CM	206429-1	11-4	Rev sex	2.89	2.61
495242CM	206705-2♣	13-9	Std sex	1.95	1.76
495269CM	206838-2♣	23-24	Std sex	3.59	3.36
495226CM	206430-2♣	11-4	Rev sex	1.89	1.71

### Plugs

Part No.	Product No.	Arr.	Desc.	1	10
495322CM	206037-1♣	17-16	Std sex	\$2.55	\$2.32
495031CM	206044-1♣	17-14	Rev sex	2.55	2.49
495066CM	206150-1♣	23-37	Std sex	2.99	2.74
495074CM	206305-1	23-37	Rev sex	3.19	2.91
495103CM	206708-1	13-9	Std sex	3.25	2.94
495058CM	206837-1♣	23-24	Std sex	3.35	3.01
421374CM	211399-1♣	13-7	Std sex	3.05	2.77
495138CM	211400-1♣	13-7	Rev sex	3.35	3.20
495120CM	211768-1♣	17-9	Rev sex	3.49	3.34
495082CM	206060-1♣	11-4	Std sex	2.25	2.04
495111CM	211766-1♣	17-9	Std sex	3.95	3.68
495040CM	211772-1♣	23-19	Rev sex	4.25	3.91

## CPC Circular Plastic Connectors

**Series 2** — High density applications using size 20DF and 20DF contacts, 0.40" (1.02mm) pin diameter

- Voltage rating: 250V (UL)
- Current: 7.5A max.
- Housing: thermoplastic black, UL94V-0 rated
- Feed thru contact: copper alloy, plated gold over nickel
- Max. wire insulation diameter: 0.068"
- Accepts size 20DM or 20DF crimp snap-in contacts



NEW

### Square Flange Receptacle w/ Mounting Holes

Part No.	Product No.	Arr.	Desc.	1	10
495453CM	205840-3♣	17-28	Std sex	\$3.69	\$3.37
495437CM	205841-1♣	11-8	Std sex	3.29	3.12
495470CM	206038-1♣	17-28	Rev sex	3.49	3.31
495429CM	206433-1♣	11-8	Rev sex	3.35	3.16
495445CM	206436-1	11-9	Std sex	3.25	3.03
495461CM	205843-1♣	23-63	Std sex	5.75	5.37
495488CM	206438-1♣	23-57	Rev sex	5.95	5.29

### Free Hanging Receptacle

Part No.	Product No.	Arr.	Desc.	1	10
421391CM	205481-2♣	11-8	Std sex	\$3.29	\$3.12
495349CM	206152-1♣	17-28	Std sex	4.59	4.28
495331CM	206486-2♣	11-9	Std sex	3.39	3.16

### Plugs

Part No.	Product No.	Arr.	Desc.	1	10
495381CM	205383-1♣	11-8	Std sex	\$4.09	\$3.77
495402CM	208839-1♣	17-28	Std sex	4.35	4.04
495411CM	205842-1♣	23-63	Std sex	5.65	5.33
495365CM	206039-1♣	17-28	Rev sex	4.49	4.19
495357CM	206434-1♣	11-8	Rev sex	4.09	3.77
495373CM	206437-1♣	23-57	Rev sex	5.75	5.37
495390CM	206485-1	11-9	Std sex	5.35	4.83

**Series 3** — Low-density power applications with type XII contacts

- Accepts type XII power contacts w/c can carry up to 25A per contacts, accommodates 16-10 AWG
- Housing: thermoplastic black, UL94V-0 rated



NEW

### Square Flange G w/ Mounting Holes

Part No.	Product No.	Arr.	Desc.	1	10
495550CM	206036-2	17-3	Std sex	\$2.69	\$2.47
495568CM	206137-1♣	23-7	Std sex	4.05	3.70
495533CM	206227-1♣	23-7	Rev sex	3.29	2.99
495541CM	206425-1♣	17-3	Rev sex	2.65	2.41

### Plugs

Part No.	Product No.	Arr.	Desc.	1	10
495517CM	206037-2	17-3	Std sex	\$3.55	\$3.16
495525CM	206136-1♣	23-7	Std sex	3.79	3.42
495509CM	206226-1♣	23-7	Rev sex	3.85	3.48
495496CM	206426-1♣	17-3	Rev sex	4.59	4.23

### Series 4 Plugs

Combination of standard and power density application w/ type III+ and type XII contacts.

- Housing: thermoplastic black, UL94V-0
- Accepts size 16 multimate and type XII power contacts



Part No.	Product No.	Arr.	No. of Cavities	Power	Multimate	1	10
495584CM	206612-1♣	23-22M	2	20	..	\$4.39	\$4.39
495576CM	207485-1♣	23-16M	4	12	....	3.69	3.35

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

### Molex MX150L Sealed Connectors

The MX150L™ connector system is designed to meet the needs for a rugged, environmentally sealed connector system supporting both low-level signal and power applications.



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See Our Molex MX150L Series Offering at [www.Jameco.com/Prod/MolexMX150L](http://www.Jameco.com/Prod/MolexMX150L)

## AMP

### Keying Plugs

Used in multimate contact cavities that accept type II, type II+ and subminiature coaxicon socket contacts. A plug protrudes from the mating face of a connector and prevents connectors from being mated.

- Housing: nylon natural, UL94V-0 \* Prepackaged: please order in increments of 10

Part No.	Product No.	Description	1	10
493976CM	200821-1♣	Keying plug	*	\$15
493968CM	206509-1♣	Keying plug for Series 2 type connectors	.33	.277

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## CPC Accessories

### Internal Cable Grip

Provide strain relief capabilities for jacketed cables in applications where aesthetic appearance is essential. Prepackaged: please order in increments of 10

Part No.	Product No.	Description	Shell Size	10	100
493950CM	207490-1♣	Cable grip	11	\$2.14	\$2.09
493941CM	207489-1♣	Cable boot	11	2.04	1.90

### Peripheral Seal

Part No.	Product No.	Shell Size	10	100
421366CM	206403-1♣	11	\$4.51	\$3.89

AMP

## CPC Accessories (Continued)

**Circular Sealing Cap  
(for receptacles only)**Used to protect exposed contacts  
for unmated receptacles.

- Material: thermoplastic black, UL94V-1 rated
- Sealing gasket: black neoprene
- Bead chain: steel, nickel plated
- Bead chain coupling: brass nickel plated

NEW

Prepackaged: please order  
in increments of 10

Part No.	Product No.	Shell Size	Series	Description	1	10
495277CM	206903-1	11	1 & 2	Sealing cap with plastic wrap	\$2.80	

**Cable Clamps**Provides strain relief and can be used in  
all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated
- 494127CM: body and crimp halves – zinc alloy nickel plated with stainless steel screws and washers



Part No.	Product No.	Shell Size	Cable Size O.D. (max.)	Thread Size	1	10
494071CM	206138-1	23	0.703"	1 3/8 – 18 UNEF-2B	\$3.15	\$2.85
494004CM	207008-1	13	0.703"	3/4 – 20 UNEF-2B	3.19	2.90
494127CM	208945-8	28	0.450"-0.938"	1 7/16 – 18 UNEF-2B	19.65	18.01
494047CM	206062-3	28	0.329"	5/8 – 24 UNEF-2B	2.85	2.72
494039CM	206062-1	28	0.329"	5/8 – 24 UNEF-2B	2.75	2.66
494063CM	206070-1	17	0.453"	15/16 – 20 UNEF-2B	2.85	2.75
493992CM	206322-1	17	0.703"	15/16 – 20 UNEF-2B	3.45	3.15
493984CM	206358-1	11	0.453"	5/8 – 14 UNEF-2B	2.99	2.50
494012CM	206512-1	23	1.125"	1 3/8 – 18 UNEF-2B	3.99	3.61
494055CM	206966-1	13	0.453"	3/4 – 20 UNEF-2B	2.89	2.62

**Self Centering Cable Clamp**Used in applications where strain relief  
protection is required and the cable or  
wire bundle is large and/or stiff.

- Material: black thermoplastic, UL94V-0 rated

NEW

Part No.	Product No.	Shell Size	1	10
494021CM	206403-1	23	\$4.55	\$4.18

**Contact Pin**

- Material: brass

Prepackaged: please order  
in increments of 100

Part No.	Product No.	Type	Finish	Gender	100
527689CM	6-66506-1	20DF	A	Pin	\$1.143

**Type III+ Contacts**

- Solder: contact body and tabs – brass
- Crimp, snap-in: contact body – brass or phosphor bronze; retention spring – stainless steel
- Test current: 13A
- Finish:
  - A: 30u" gold over nickel;
  - C: 15u" gold over nickel
  - E: 30u" select gold
- B: Tin-Lead
- D: 30u" select gold over nickel
- F: 110u" silver plated



NEW

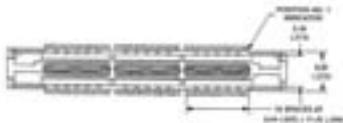
Part No.	Product No.	Contact Size	AWG	Insulation Dia. Range	Finish	Gender	Type	1	100
526424CM	66180-1	16	18-16	—	A	Pin	Solder	\$0.84	\$0.60
526387CM	66099-2	16	18-16	0.08-0.1	B	Pin	Crimp	.23	.216
526328CM	66099-3	16	18-16	0.08-0.1	C	Pin	Crimp	.37	.342
526344CM	66099-4	16	18-16	0.08-0.1	D	Pin	Crimp	.33	.323
526416CM	66101-4	16	18-16	0.08-0.1	D	Socket	Crimp	.55	.397
526467CM	66103-2	16	24-20	0.04-0.08	B	Pin	Crimp	.22	.218
526459CM	66103-3	16	24-20	0.04-0.08	C	Pin	Crimp	.33	.295
526336CM	66105-2	16	24-20	0.04-0.08	B	Socket	Crimp	.26	.247
526379CM	66105-3	16	24-20	0.04-0.08	C	Socket	Crimp	.38	.351
526512CM	66105-4	16	24-20	0.04-0.08	D	Socket	Crimp	.40	.352
526432CM	66181-1	16	18-16	—	A	Socket	Solder	.68	.63
526547CM	66360-2	16	18-14	0.08-0.1	B	Socket	Crimp	.25	.238
526408CM	66360-4	16	18-14	0.08-0.1	D	Socket	Crimp	.50	.44
526521CM	66361-2	16	18-14	0.08-0.1	B	Pin	Crimp	.22	.219
526395CM	66361-4	16	18-14	0.08-0.1	D	Pin	Crimp	.34	.295
526483CM	66399-4	16	24-20	0.08-0.1	D	Socket	Crimp	.40	.371
526539CM	66400-1	16	24-20	0.08-0.1	B	Pin	Crimp	.22	.219
526563CM	1-66103-5	—	24-20	0.08-0.1	B	Pin	Crimp	.29	.266
526361CM	1-66103-7	—	24-20	0.08-0.1	A	Pin	Crimp	.44	.361
526504CM	1-66105-6	—	24-20	0.08-0.1	A	Socket	Crimp	.40	.304
526491CM	1-66360-0	—	18-14	0.08-0.1	B	Socket	Crimp	.33	.238
526475CM	1-66360-1	—	18-14	0.08-0.1	A	Socket	Crimp	.60	.447
526441CM	1-66361-1	—	18-14	0.08-0.1	A	Pin	Crimp	.41	.323

**Type XII, Precision Formed Crimp Snap-In**

- Material: copper
- Test current: tin-lead—15A; silver or gold—35A



Part No.	Product No.	AWG	Insulation Dia. Range	Finish	Gender	1	10
526580CM	66259-2	10	0.19-0.22	A	Male	\$5.19	\$4.07
526571CM	66261-1	16-12	0.135-0.16	B	Male	3.65	3.16
526598CM	66261-2	16-12	0.135-0.16	E	Male	6.25	6.07
526601CM	66261-4	16-12	0.135-0.16	F	Male	2.65	2.32

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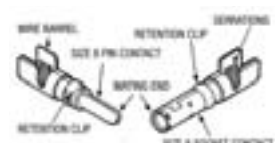
- Level III board-to-board connector
- High density and controlled impedance
- Redundant contact design

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same day. Each warehouse will accrue separate shipping charges.  
Sorry, we're unable to ship COD.See Our AMP Mate-N-Lok Series Offering at  
[www.Jameco.com/Prod/AMPMICTOR](http://www.Jameco.com/Prod/AMPMICTOR)**AMP Z-Pack Connectors**

- 55-125 contacts
- Right angle female connectors
- Standard and reduced crosstalk versions
- Glass filled polyester housing

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same day. Each warehouse will accrue separate shipping charges.  
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[www.Jameco.com/Prod/AMPZPack](http://www.Jameco.com/Prod/AMPZPack)**AMP Multimate Contacts**

- "G" series modular connectors
- Contact size: 16
- Pin diameter: 0.062"
- Test current: 13A
- Copper alloy material

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same day. Each warehouse will accrue separate shipping charges.  
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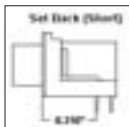
## D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)

- Current rating: 1A to 5A
- High temperature thermoplastic
- Insulation material: PBT

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### Right Angle PC Mount



#### Metal .318" Set Back

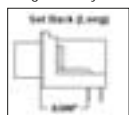
- Short style
- Lead length: .138"
- Lead spacing: .115"
- Current rating: 1A



15149CM

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100	500
104942CM	DB9P318	9	M	\$.55	\$.50	\$.45	\$.38
104951CM	DB9S318	9	F	\$.60	\$.55	\$.49	\$.45
71124CM	DA15P318	15	M	\$.69	\$.59	\$.55	\$.49
77956CM	DA15S318	15	F	\$.79	\$.69	\$.65	\$.45
168743CM	HDDB15S318	15*	M	\$.69	\$.62	\$.56	\$.51
71466CM	HDDB15S318	15*	F	\$.59	\$.53	\$.48	\$.39
15149CM	DB25P318	25	M	\$.79	\$.65	\$.55	\$.45
15181CM	DB25S318	25	F	\$.89	\$.79	\$.72	\$.65
265439CM	DSUB-25F	25	F	\$.85	\$.73	\$.62	\$.48
71706CM	DC37P318	37	M	\$.99	\$.89	\$.80	\$.66
78182CM	DC37S318	37	F	1.15	1.03	\$.86	\$.61

\* High Density



#### Metal .590" Set Back

- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A
- Long style



104977CM

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
104969CM	DB9P590	9	M	\$.99	\$.83	\$.72
104977CM	DB9S590	9	F	\$.89	\$.79	\$.75
104993CM	DA15S590	15	F	1.05	\$.91	\$.63
105005CM	DB25P590	25	M	\$.99	\$.89	\$.79
105013CM	DB25S590	25	F	1.25	1.12	\$.99

### Other Manufacturers — Great Deals

189624CM	DB25P590	25	M	\$.29	\$.26	\$.24
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† Without board tabs

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### IDC Ribbon Cable

- Current rating: 1 amp
- Insulation material: glass-filled polyester
- Temp range: -55°C to +120°C
- Contact material: phosphor bronze
- Terminates with standard D-type connectors
- Shell: MD: metal; CD: plastic (see cross ref. no.)



12431CM

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
109225CM	MDB9P	9	M	\$1.39	\$1.29	\$1.13
12503CM	CDB9P	9	M	2.49	1.79	1.59
109217CM	MDB9S	9	F	1.55	1.23	1.08
12520CM	CDB9S	9	F	2.59	2.35	2.09
117381CM	MDA15P	15	M	1.65	1.32	\$.73
12298CM	CDA15P	15	M	1.65	1.32	\$.79
116011CM	MDA15S	15	F	1.55	1.25	\$.85
12319CM	CDA15S	15	F	1.79	1.50	\$.73
115983CM	MDB25P	25	M	2.05	1.83	1.54
12335CM	CDB25P	25	M	1.89	1.69	1.29
115975CM	MDB25S	25	F	2.05	1.83	1.54
12431CM	CDB25S	25	F	1.95	1.79	1.39
115991CM	MDC37P	37	M	2.39	2.15	1.55
12466CM	CDC37P	37	M	3.09	2.93	2.74
116003CM	MDC37S	37	F	3.25	2.94	2.65
12482CM	CDC37S	37	F	3.49	2.99	2.25

† Requires flat cable w/ .0625" centers

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### Crimp-Type Connectors & Pins

- Connectors: metal shell; removable male/female crimp pins
- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: exchangeable tips
- Use 99442CM, pg 299 to crimp 43377CM, 43369CM



180890CM



38771CM



43369CM



19094CM

\* Minimum order 10 pieces

Part No.	Description	1	10	100	1000
73189CM	DB9 M housing	\$.49	\$.39	\$.31	\$.19
73197CM	DB9 F housing	\$.49	\$.39	\$.31	\$.19
73200CM	DA15 M housing	\$.59	\$.53	\$.48	\$.43
73218CM	DA15 F housing	\$.62	\$.56	\$.50	\$.44
180881CM	HDDB15 M housing	* 1.09	\$.98	\$.78	\$.58
180890CM	HDDB15 F housing	* .89	\$.79	\$.72	\$.54
38789CM	DB25 M housing	\$.56	\$.44	\$.36	\$.21
38771CM	DB25 F housing	\$.55	\$.44	\$.31	\$.21
43377CM	M crimp pin	*	1.10	\$.09	\$.08
43369CM	F crimp pin	*	1.08	\$.07	\$.06
185421CM	M crimp pin (180881CM)	* .055	\$.045	\$.04	
185412CM	F crimp pin (180890CM)	* .055	\$.05	\$.04	
19094CM	Insert/extract. tool for above pins (HT101)	2.79	2.49	2.15	2.04

\* High Density

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### Metal Solder-Cup

- Compatible with 24 AWG communications pg 104, and 22 AWG solid cable, pg 0



203799CM

Part No.	Contacts	Gender	1	10	100	1000
15747CM	9	M	\$.56	\$.44	\$.36	\$.24
15771CM	9	F	\$.59	\$.49	\$.44	\$.31
15077CM	15HD	* M	\$.69	\$.59	\$.49	\$.31
164822CM	15HD	* F	\$.79	\$.69	\$.59	\$.39
15034CM	15	M	\$.55	\$.49	\$.42	\$.29
15051CM	15	F	\$.59	\$.49	\$.39	\$.24
15114CM	25	M	\$.99	\$.89	\$.79	\$.71
15157CM	25	F	\$.89	\$.80	\$.69	\$.61
203799CM	26HD	* M	\$.65	\$.58	\$.52	\$.49
203781CM	26HD	* F	\$.75	\$.68	\$.61	\$.58
15472CM	37	M	\$.99	\$.85	\$.79	\$.49
15499CM	37	F	1.19	1.05	\$.85	\$.49
15675CM	50	M	1.65	1.49	1.35	\$.99
15691CM	50	F	1.79	1.39	1.32	\$.99

### Other Manufacturers — Great Deals

482687CM	25	M	\$.89	\$.80	\$.71	\$.45
482708CM	25	F	\$.80	\$.72	\$.62	\$.55
639630CM	37	M	1.07	\$.95	\$.77	\$.44
482724CM	37	F	1.05	\$.95	\$.80	\$.39
482732CM	50	M	1.49	1.34	1.21	\$.89
482741CM	50	F	1.65	1.25	1.19	1.07

\* High Density

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### Metal Straight PC Mount

- Non-removable contacts
- Current rating: 5A
- Operating temp.: -65° to +250°F
- 125 Vrms

Part No.	Cross Ref. No.	Cont.	Gender	1	10	100
111691CM	DB9PPCB	9	M	\$.55	\$.45	\$.32
15780CM	DB9SPCB	9	F	\$.55	\$.45	\$.32
176760CM	DA15PPCB	15	M	\$.49	\$.44	\$.33
176751CM	DA15SPCB	15	F	\$.49	\$.42	\$.31
15122CM	DB25PPCB	25	M	\$.65	\$.59	\$.52
15165CM	DB25SPCB	25	F	\$.74	\$.67	\$.39
180021CM	DC37SPCB	37	F	\$.85	\$.72	\$.54

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## D-Sub Connector Hoods



- Use with D-sub solder cup and housing style connectors (hardware included)

D Series: plastic hood with strain relief (gray)  
MD Series: metal coated plastic hood w/ strain relief  
MH Series: die-cast metal hood with strain relief

Part No.	Cross Ref. No.	Connector	1	10	100	1000
15721CM	DB9H	9-pin	\$.49	\$.45	\$.39	\$.35
25620CM	MDB9H	9-pin	\$.59	\$.49	\$.39	\$.35
147740CM	MHDB9H	9-pin	1.45	1.29	1.15	\$.99
15018CM	DA15H	15-pin	\$.49	\$.45	\$.40	\$.35
25566CM	MDA15H	15-pin	\$.56	\$.44	\$.36	\$.31
15085CM	DB25H	25-pin	\$.45	\$.39	\$.35	\$.32
25603CM	MDB25H	25-pin	\$.59	\$.49	\$.42	\$.35
15106CM	MHDB25H	25-pin	1.39	1.19	1.09	\$.92
15456CM	DC37H	37-pin	\$.59	\$.55	\$.45	\$.39
25611CM	MDC37H	37-pin	\$.75	\$.69	\$.59	\$.44
15659CM	DD50H	50-pin	\$.99	\$.85	\$.75	\$.65

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## 25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects.



Part No.	Description	1	10	100	500
34091CM	25-pin, plastic dual	\$.95	\$.85	\$.75	\$.59

## 4-40 Screw Hardware for D-Subminiature Connectors

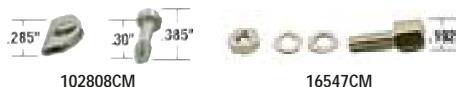
### 4-40 x .187" Jack Screws and Standoffs



\* Minimum order 10 pieces

Part No.	Description	1	10	100	1000
196293CM	.252"L jack screw	\$.21	\$.12	\$.08	
169931CM	.275"L jack screw	\$.15	\$.13	\$.11	
172603CM	.315"L jack screw	\$.121	\$.101	\$.076	
102816CM	.435"L jack screw	\$.49	\$.46	\$.41	\$.37
108986CM	.515"L jack screw	\$.55	\$.50	\$.45	\$.40
125014CM	4-40 x 1.65"L plastic beige thumbscrew	\$.39	\$.35	\$.32	\$.25
175636CM	.187"L standoff	\$.21	\$.15	\$.10	
102795CM	.236"L (6mm) stdf	\$.21	\$.15	\$.10	

### 4-40 Screw Sets



102808CM: 4-40 screw (.30"L) and retainer set  
16547CM: 4-40 x .187" jack screw (.31"L thread), washer, lock washer, and nut set

\* Minimum order 10 pieces

Part No.	Description	10	100	1000
102808CM	Screw/retainer set	\$.39	\$.35	\$.30
16547CM	Screw/nut set	\$.31	\$.25	\$.17



## D-Subminiature Connectors

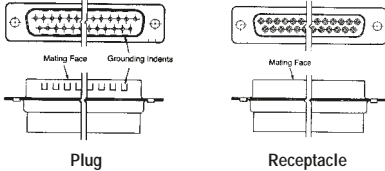
- Dielectric withstanding voltage: 1000VAC (one minute)
- Nylon, flame retardant, 94V-0 rated, glass filled
- Low-cost, high-performance, precision formed crimp contacts
- Standard mounting method with 0.120" diameter mounting holes
- Insulation resistance: 5000MΩ
- UL/CSA recognized and certified

Quantity **SAVE**

Lower **\$\$\$**

### Crimp-Type Contacts

- Current rating: 1.2A to 3.7A
- Intermateable with any size 20 D-sub dimensionally complying with MIL-C-24308
- Crimp snap-in contacts allows loading of only the number of contacts being used



### Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222640CM	205204-1	9	Plug	\$ .95	\$ .66	\$ .60
222658CM	205206-1	15	Plug	\$ 1.39	.87	.60
222666CM	205208-1	25	Plug	1.05	.92	.82
222674CM	205210-1	37	Plug	\$ 1.69	1.32	1.20
222682CM	205212-1	50	Plug	2.09	1.79	1.69
222691CM	205203-1	9	Receptacle	1.10	.99	.77
222703CM	205205-1	15	Rec.	\$ 1.25	.84	.76
222711CM	205207-1	25	Receptacle	1.05	.95	.71
222720CM	205209-1	37	Rec.	\$ 1.69	1.27	1.18
222738CM	205211-1	50	Receptacle	2.09	1.79	1.69

### Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222754CM	205204-3	9	Plug	\$ 1.29	\$ 1.15	\$ .85
222762CM	205206-2	15	Plug	\$ 1.49	1.07	.98
222771CM	207464-1	25	Plug	1.06	.97	.72
222789CM	205210-2	37	Plug	1.69	1.49	1.12
222797CM	205204-4	9	Plug*	.83	.75	.57
222800CM	205206-3	15	Plug*	.99	.89	.65
222818CM	207464-2	25	Plug*	.88	.78	.58
222826CM	205210-3	37	Plug*	1.69	1.49	1.12
222834CM	205212-3	50	Plug*	1.79	1.59	1.19
222842CM	205203-3	9	Receptacle	.69	.59	.52
222914CM	205205-2	15	Receptacle	.88	.78	.58
222922CM	207463-1	25	Rec.	\$ .99	.62	.58
222931CM	205209-2	37	Rec.	\$ 1.19	1.10	.92
222949CM	205211-2	50	Receptacle	2.09	1.79	1.34

\* With grounding indents

## D-Sub Pin Insertion/Extraction Tools

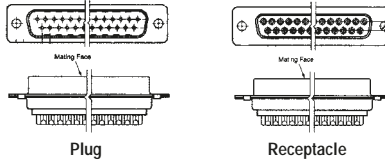
527582CM/  
 19094CM/223335CM:  
 Plastic body; metal tips

223327CM: Handle with .050" hex wrench & exchangeable tips

Part No.	Description	1	10
19094CM	Red/white plastic body	\$2.79	\$2.49
527582CM	AMP# 91067-1	6.89	6.55
223335CM	AMP# 91067-2	4.99	4.49
223327CM	AMP# 91285-1	19.99	18.99

### Solder-Cup Contacts

- Current rating: 1.2A to 3.0A
- Intermateable with other D-sub connectors
- One-piece 94V-0 rated plastic insert
- Preloaded duplex-plated solder-cup contacts
- Shields offer full EMI shielding and ESD insulation
- Anti-solder wicking contact design



### Zinc-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222957CM	747904-4	9	Plug	\$1.89	\$1.59	\$1.32
222965CM	747908-4	15	Plug	2.65	2.19	1.75
222973CM	747912-4	25	Plug	3.69	3.10	2.49
222981CM	747916-4	37	Plug	5.45	4.56	3.42
223036CM	747905-4	9	Receptacle	2.65	2.23	1.76
223044CM	747913-4	25	Receptacle	4.75	3.99	3.19

### Tin-Plated Shell



Part No.	Product No.	Cont.	Description	1	10	100
222990CM	747904-2	9	Plug	\$1.69	\$1.55	\$1.15
223001CM	747908-2	15	Plug	2.79	2.49	1.85
223010CM	747912-2	25	Plug	3.29	2.95	2.19
223028CM	747916-2	37	Plug	5.29	4.29	3.49
223052CM	747905-2	9	Receptacle	2.35	2.09	1.55
223061CM	747909-2	15	Receptacle	3.45	2.99	2.19
223079CM	747913-2	25	Receptacle	4.09	3.69	2.72
223087CM	747917-2	37	Receptacle	6.65	5.69	4.19



## Plastic Hoods for D-Sub Connectors

- Cable clamp type: clam shell
- Cable exit angle: straight
- Standard clam shell length
- Body material, cable support gate, and cable clamp: thermoplastic
- Screw material: steel
- Screw plating: zinc



Part No.	Product No.	Positions	1	10	100
230893CM	205729-1	9	\$2.25	\$1.85	\$1.46
230906CM	205730-1	15	2.35	2.10	1.85
230914CM	205718-1	25	2.05	1.69	1.32
230922CM	205731-1	37	2.99	2.63	2.29
230931CM	205732-1	50	\$ 2.19	2.95	2.65

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## D-Sub Contacts

- Pin material: brass;
- socket material: phosphor bronze
- Contact plating
- \*A: Select - gold flash over nickel on entire contact, with additional gold (0.000030") on mating end;
- \*B: Duplex - gold (0.000030") on mating end, tin-lead on termination end, with entire contact nickel underplated;
- \*C: gold flash over nickel on entire contact;
- \*D: gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated
- For use with AMP D-sub connectors (see left)
- Minimum order 10 pieces

Quantity **SAVE**



### Male Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223095CM	1-66507-0	1C	28-24	\$ .24	\$ .17	\$ .12
223124CM	66682-4	1A	28-24	.22	.16	.14
223108CM	66507-9	1A	28-24	.18	.12	.09
223132CM	745254-7	1C	26-22	.25	.18	.128
223141CM	745254-6	1A	26-22	.25	.18	.13
223159CM	1-745254-6	1B	26-22	.25	.18	.135
223167CM	1-66506-0	1C	24-20	.16	.15	.12
223175CM	205202-7	3C	24-20	.24	.17	.14
223183CM	5-66506-9	1D	24-20	.21	.15	.13
223191CM	66506-9	1A	24-20	.16	.15	.112
223204CM	5-66506-7	1B	24-20	.14	.105	.078
223212CM	745229-4	3A	22-18	.21	.17	.127

### Female Crimp Contacts

Part No.	Product No.	Desc.*	AWG	10	100	1000
223221CM	1-66505-0	2C	28-24	\$ .18	\$ .12	\$ .09
223239CM	66683-4	2A	28-24	.16	.126	.102
223247CM	745253-6	2A	26-22	.22	.153	.114
223255CM	1-66504-0	2C	24-20	.17	.15	.11
223263CM	205201-7	4C	24-20	.26	.214	.16
223271CM	5-66504-7	2D	24-20	.16	.12	.10
223280CM	205201-5	4A	24-20	.43	.399	.299
223298CM	66504-9	2A	24-20	.17	.15	.13
223301CM	6-66504-0	2B	24-20	.26	.214	.16

### Male Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
234982CM	66570-3	5A	28-24	\$ .22	\$ .12	\$ .11

### Female Solder Contact

Part No.	Product No.	Desc.*	AWG	10	100	1000
223319CM	66569-3	6A	18 (max.)	\$ .225	\$ .18	\$ .162

# D-Sub Connectors

AMP – Biggest Name in Quality Connectors

Color Code Legend  
New Sale Lower\$ QtySave

AMP

## AMPLIMITE™ D-Subminiature Connectors

### HD-20 Right Angle PCB Mount 0.318" Setback



NEW

- Housing: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated • Lead length: 0.125"
- Lead diameter: 0.026" • Lead spacing: 0.108"
- Socket plating: A: 30µ" gold mating end, tin-lead terminating end, nickel under plated; B: gold flash mating end, tin-lead terminating end, nickel under plated

#### Without board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	10
614125CM	745781-4	A	9	F	\$1.95	\$1.74
614248CM	745250-4	A	9	M	2.19	2.00
614133CM	745782-4	A	15	F	2.35	2.09
614221CM	745236-4	A	15	M	5.69	5.23
614141CM	745783-4	A	25	F	2.75	2.50
614230CM	745238-4	A	25	M	3.65	2.95
614150CM	745784-4	A	37	F	5.49	5.24

#### With board locks, w/ threaded inserts

Part No.	Product No.	Plating	Pins	Gender	1	65
614504CM	747844-4	A	9	F	\$2.05	\$1.91
614441CM	747840-4	A	9	M	1.45	1.29
614491CM	747844-3v	B	9	F	1.75	1.60
614432CM	747840-3	B	9	M	1.55	1.42
614539CM	747845-4	A	15	F	1.69	1.56
614467CM	747841-4	A	15	M	1.69	1.65
614555CM	747846-4	A	25	F	2.35	2.33
614475CM	747842-4	A	25	M	3.25	2.92
614547CM	747846-3	B	25	F	2.05	1.90
614571CM	747847-4	A	37	F	4.19	3.78
614483CM	747843-4	A	37	M	4.55	4.09

#### With board locks, w/ fixed female screw locks

Part No.	Product No.	Plating	Pins	Gender	1	10
614459CM	747840-6	A	9	M	\$1.89	\$1.71
614512CM	747844-5	B	9	M	1.79	1.60
614521CM	747844-6	A	9	F	1.75	1.65
614563CM	747846-6	A	25	F	3.09	2.77

### HD-20 Straight PCB Mount



NEW

- Housing: 94V-0 rated thermoplastic black
- Shell: steel, tin plated • Lead spacing: 0.108"
- Lead diameter: 0.026"
- Socket contacts phosphor bronze w/ 30µ" gold on mating end, tin-lead termination end, 50µ" nickel underplated • Lead length: 0.5"

#### With female screw locks

Part No.	Product No.	Pins	Gender	1	10	100
614934CM	1-747150-4	9	F	\$4.89	\$4.42	\$4.17
614580CM	747871-2	9	M	4.05	3.95	3.75
525296CM	1-745967-4	25	F	5.19	4.65	4.39

#### With 4-40 threaded inserts

Part No.	Product No.	Pins	Gender	1	10	100
614213CM	747150-8	9	F	\$3.78	\$3.41	\$3.15
614598CM	747871-8	9	M	4.05	3.65	3.45
614176CM	747967-8	25	F	6.29	5.66	5.35

#### With standard mounting holes

Part No.	Product No.	Pins	Gender	1	10	100
614205CM	747150-2	9	F	\$5.25	\$4.85	\$4.72

### HDE-20 Metal Shell IDC Connectors

- Front shell: steel, tin plated
- Contacts: phosphor bronze
- Plating: 30µ" gold on mating end, tin-lead on termination end, with entire contact nickel underplated
- Contact identification No. 2 for 26-22AWG



NEW

Part No.	Product No.	Positions	1	10	100
614070CM	747491-2	9	\$2.35	\$1.91	\$1.67

### HDF-20 Low Profile Metal Shell (For Round Conductor Flat Ribbon Cable)



- Housing cover and cable stabilizer: 94V-0 rated thermoplastic, black
- Front shell: steel, tin plated
- Contacts: phosphor bronze with 30µ" gold on mating end, 100µ" bright tin-lead terminating end, nickel underplated

#### With standard mounting holes

Part No.	Product No.	Pins	Gender	1	10	100
614328CM	747303-4	9	F	\$4.25	\$3.80	\$3.59
614361CM	747306-4	9	M	3.98	3.90	3.75
614310CM	747303-3	15	F	4.52	4.45	4.35
614352CM	747306-3	15	M	4.53	4.45	4.35
614301CM	747303-2	25	F	6.09	5.49	5.19
614344CM	747306-2	25	M	5.99	5.39	5.08
614299CM	747303-1	37	F	8.05	7.21	6.90
614336CM	747306-1	37	M	8.05	7.21	6.80

#### With threaded inserts

Part No.	Product No.	Pins	Gender	1	10	100
525481CM	747043-4	9	M	\$5.39	\$4.29	\$4.05
525499CM	747052-2	25	F	7.05	6.39	5.76

#### Thermoplastic body w/ standard mounting holes

Part No.	Product No.	Pins	Gender	1	10
614387CM	747318-4	9	F	\$3.45	\$3.15
614408CM	747321-4	9	M	3.85	3.24
614379CM	747318-2	25	F	8.25	5.04
614395CM	747321-2	25	M	5.59	5.04

#### Cable stabilizers

Part No.	Product No.	Positions	1	10	100
614281CM	747275-4	9	\$0.22	\$0.195	.166
614272CM	747275-3	15	.25	.22	.19
614264CM	747275-2	25	.29	.26	.247
614256CM	747275-1	37	.33	.293	.26

### HD-22 Right Angle PCB Solder 0.350" Setback

- Front shell: steel, tin plated
- Housing: 94V-0 rated thermoplastic, black
- Socket: phosphor bronze with 30µ" gold on mating end, tin-lead termination end, with nickel underplating



NEW

#### With board locks and threaded inserts

Part No.	Product No.	Pins	Gender	1	10	100
614715CM	748481-5	26	F	\$4.99	\$4.53	4.28
614723CM	748482-2	44	F	3.15	2.84	2.69

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AMP

## AMPLIMITE™ D-Sub Connector Accessories

### Shielded and Unshielded Cable Clamps



NEW

- Die cast shield material and finish: zinc alloy, plated bright nickel over bright copper
- Plastic shield: thermoplastic black
- 4-40 fillister head screws & hex nuts: steel, zinc plated
- 4-40 mounting screws: steel zinc plated
- Jackscrews: stainless steel, passivated

#### Die cast cable clamps

Part No.	Product No.	Cable (O.D) max.	1	10
614029CM	745171-1	0.240"	\$4.05	\$3.67
614037CM	745171-2	0.200"	4.55	4.14
614045CM	745172-1	0.375"	4.49	4.08
614053CM	745172-2	0.300"	5.19	4.46
614061CM	745173-3	0.430"	4.27	3.89

#### Jackscrews

Part No.	Product No.	Thread Size	1	10
525544CM	747784-8	4-40	\$4.65	\$4.56
614424CM	747784-3	4-40	1.65	1.50

#### Spring Latch

- Material: stainless steel (for use with HDE and HDP metal shell)

Part No.	Product No.	1	10
614117CM	745779-2	\$0.99	\$0.90

### HDP-20 Basic Shielding Plug Hardware Kit

- Kit contains connector, inner shield, outer shield
- Connector shells: steel, tin plated
- Connector insert: thermoplastic black, 94V-0 rated
- Shield: steel, tin plated • Recommended cable insulation dia.: 0.165"-0.455"



Part No.	Product No.	Pos.	Max. Cable Dia.	1	10
614416CM	747522-1	9	0.350"	\$1.65	\$1.38

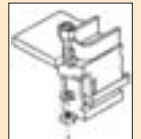
AMP

## Rear Panel Mount Jack Socket Assembly

Install jack socket and attach lockwasher and nut.

- For use with 0.062" (1.57mm) thick panel.

NEW



Part No.	Product No.	Description	1	10
620066CM	609-006-1	Jack socket assembly	\$5.52	\$4.97

## Amphenol Series 44 Circular Connector Tools

Part No.	Product No.	Description	1	10
567568CM	356-258	Insertion tool	\$41.05	\$38.97
567576CM	356-259	Pin extractor	24.69	23.46
567592CM	356-260	Socket extractor	24.69	23.46

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**AMP**

## AMPLIMITE™ Screw Retainers and Locks

### Metal Screw Retainers for Metal Shell Connectors (HDE/HDP)

- Retaining clip: 0.012" (0.31mm) stainless steel
- Male screw: steel, zinc plated
- Finish: yellow
- Thread size: 4-40



**NEW**

Part No.	Product No.	Description	1	10
613763CM	205980-1♣	Metal screw retainers	\$ .40	\$ .361
614109CM	745647-1♣	Female screw locks	.84	.79

### Female Screw Locks for Metal Shell and All Plastic Connectors (HDE/HDF/HDP)



- Cold rolled steel, zinc plated

### For HD All Plastic Plugs & Receptacles with Integral Stand-Offs

- Thread length: 0.560"

**NEW**

Part No.	Product No.	Finish	Thread Size	1	10
613827CM	207719-1♣	Yellow	4-40	\$1.05	\$ .93
613835CM	207719-3♣	Clear	4-40	.96	.87
525501CM	747223-3	Clear	2-56	2.25	2.75

### For HD All Plastic Right Angle Plugs and Receptacles with Integral Stand-Offs

- Thread length: 0.250"

Part No.	Product No.	Finish	Thread Size	1	10
613878CM	207952-1♣	Yellow	4-40	\$1.50	\$1.33
613886CM	207952-3♣	Clear	4-40	.97	.87
614088CM	745563-1♣	Yellow	4-40	1.25	1.13

### For HDE Metal Shell or All Plastic Plugs & Receptacles

- Thread length: 0.250"

Part No.	Product No.	Finish	Thread Size	1	10
614096CM	745563-3♣	Clear	4-40	.96	.92

### Low Profile Screw Retainer Kit for HDF Amplimite™

- Cold rolled steel, zinc plated

Part No.	Product No.	Description	1	10
614184CM	746881-1♣	Male retainer kit	\$1.41	\$1.26

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♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

**AMP**

## Type III+, VI and XII Crimp Contacts



**NEW**

### Type III+, Crimp Snap-In

- Contact body material: brass
- Plating:
  - A: 30u" (0.76um) select gold over 10u" (25um) nickel
  - B: 30u" (0.76um) select gold over 50u" (1.27um) nickel
  - C: 15u" (0.38um) gold over 30u" (0.76um) nickel
  - D: 50u" (1.27um) tin-lead over 30u" (0.76um) nickel
  - E: 30u" (0.76um) select gold over nickel
  - F: 50u" (1.27um) tin-lead over nickel
  - G: 100u" (2.54um) silver
  - H: Tin-lead

Part No.	Product No.	Gender	AWG	Plating	1	100
526969CM	66103-4♣	Pin	24-20	A	\$ .34	\$ .30
526977CM	66400-4♣	Pin	24-20	B	.34	.30
526686CM	66360-3♣	Socket	18-14	C	.75	.61
527398CM	66601-1♣	Socket	18-14	D	.26	.247
527347CM	66601-2♣	Socket	18-14	E	.39	.352
526942CM	66602-1♣	Pin	18-14	F	.28	.266
526934CM	66602-2♣	Pin	18-14	B	.34	.314

### Type VI, Multimate

- Body material: brass
- Plating: tin



Part No.	Product No.	Gender	AWG	1	100
526951CM	66591-1♣	Pin	22-18	.20	\$ .171

### Type XII, Precision Formed, Crimp Snap-In with Assist Spring

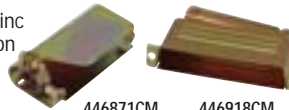
- Body material: copper
- Gender: female (socket)

Part No.	Product No.	AWG	Plating	1	100
527371CM	66740-2♣	16-12	G	\$4.35	\$3.10
527363CM	66740-6	16-12	E	6.35	5.71
527380CM	66740-8♣	16-12	H	4.49	3.87
527355CM	66741-6♣	10	E	7.79	5.92

**Cinch**

## Metal D-Subminiature Junction Shells

- Shell material: zinc plated low carbon steel w/ yellow chromate finish



- Clamp & screw: zinc plated steel w/ yellow chromate finish
- Stop nut: zinc plated brass w/ yellow chromate finish

**NEW**

### Right Angle Clamp

Part No.	Product No.	Shell Size	Std. Density	1	25
446889CM	DE-19977-5♣	E	9	\$3.55	\$3.27
446862CM	DA-19977-1♣	A	15	3.09	2.88
446871CM	DB-19977-2	B	25	3.09	2.88

### Straight Clamp

Part No.	Product No.	Shell Size	Std. Density	1	25
446934CM	DE-24567♣	E	9	\$4.19	\$3.84
446926CM	DA-24658♣	A	15	3.35	3.06
446660CM	DB-19678-2♣	B	25	2.65	2.04
446900CM	DB-24659♣	B	25	2.75	2.50
446651CM	DC-19678-3♣	C	37	2.89	2.75
446918CM	DC-24660♣	C	37	2.85	2.62
446897CM	DD-24661♣	D	50	3.65	3.44

**Cinch**

## D-Sub Solder Cup & IDC Connectors



458011CM

**NEW**

### Tx Series

- Insulator material: glass filled polyester (black) UL94V-0 rated
- Connector shell: steel w/ zinc plating, yellow chromate finish or tin plating (ground indents on plugs)
- Contact material: phosphor bronze (stamped)
- Contact plating: gold flash or 30u" gold in mating area, gold flash over nickel
- Current: 3A
- Withstanding voltage: 1000Vrms min
- Contact resistance: 2.7mΩ max.
- Insulation resistance: 5000MΩ max. (initial)
- Durability: 500 mating cycles

### All Plastic IDC for Discrete Cable Wire

- For use with SDH series gray backshell
- Accommodates 24-28AWG

### Plugs, plain flange, w/ mounting holes

Part No.	Product No.	Positions	1	25
458003CM	TE9P♣	9	\$2.75	\$2.05
458011CM	TC-37P♣	37	4.39	4.13

### Sockets, plain flange, w/ mounting holes

Part No.	Product No.	Positions	1	25
457991CM	TB-25S♣	25	\$4.85	\$3.61

## Cinch D-Subminiature Dust Caps

### Dust Caps

- For use with Cinch D-Sub connectors
- Protects connector contacts when not mated
- Material: polyethylene, black



448374CM

Part No.	Product No.	Std. Density	Gender	1	25
448411CM	DE-59-20♣	9	Socket	\$1.38	\$1.25
448403CM	DE-60-20♣	9	Plug	1.38	1.25
448420CM	DA-59-20♣	15	Socket	1.37	1.25
448374CM	DA-60-20♣	15	Plug	1.37	1.25
448391CM	DB-59-20♣	25	Socket	1.34	1.22
448382CM	DB-60-20♣	25	Plug	.89	.85
448585CM	DD-60-20♣	50	Plug	1.35	1.25

**Cinch**

## D-Sub Slidlock Assemblies

- Compatible w/ all Cinch backshell, hoods, & junction shells (except DxH/SHD/Phenolic Hood series)
- Compatible w/ all Cinch metal shell D-Sub connectors
- Slidlock plate: stainless steel, passivated
- Slidlock hex nut, washer, & 4-40 screw: steel w/ zinc plating, yellow chromate finish
- Lockpost, washer, lockwasher, & hex nut: steel w/ zinc plating, yellow chromate finish
- 444921CM: Standard density: requires two on each slide lock assembly



444568CM

**NEW**

### Lock Retainers

Part No.	Product No.	Std. Density	Pins	1	25
444584CM	DE-51224-1♣	9		\$1.99	\$1.47
444568CM	DA-51220-1♣	15		1.15	1.09
444576CM	DB-51221-1♣	25		1.27	1.19
444963CM	DD-51223-1♣	50		.99	.91
444921CM	D53018♣	—		.49	.427

# D-Sub Connectors & Accessories

Color Code Legend			
New	Sale	Lower\$	QtySave

**Cinch**

## Super D System D-Sub Backshells



447056CM



444867CM

**NEW**

### SDH Series

- Cinch Super D interconnection system is a simple, fast, economical, and reliable for mating connectors from cable-to-cable or cable-to-panel
- Snap on plastic hoods captivate connectors providing positive self-latching, audible mating w/ reliable retention & Latch-N-Lok™ quick release disconnect
- Black SDH metal shells accommodate any standard shell IDC, solder cup, crimp & poke type D-Sub connectors
- Gray SDH backshells accommodate Cinch all plastic IDC T-series connectors
- Includes stay band to strain relief cable wire
- Hood: modified phenylene oxide (black for metal, gray for plastic) • Latch lock: diecast zinc
- Screws: for latching blocks: steel w/ nickel plating
- Stay band: steel w/ zinc plating & clear chromate

### Straight (180°) Cable Entry (black) for Metal Shell Connectors

#### Filler Ends, Standard Cable Opening

Part No.	Product No.	Positions	1	25
447056CM	SDH-9BF	9	\$2.09	\$1.54
447064CM	SDH-15BF	15	1.25	1.15

#### Filler Ends w/ 4-40 Screws, Standard Cable Opening

Part No.	Product No.	Positions	1	25
447030CM	SDH-9BFCS	9	\$2.09	\$1.54
447048CM	SDH-15BFCS	15	2.09	1.87

#### Latches, Standard, Candle Opening

Part No.	Product No.	Positions	1	25
446951CM	SDH-9BL	9	\$1.31	\$1.19
446969CM	SDH-15BL	15	2.55	1.91
446977CM	SDH-25BL	25	1.59	1.43
446985CM	SDH-37BL	37	1.59	1.44

#### Latches, Large Cable Opening

Part No.	Product No.	Positions	1	25
446993CM	SDH-25BLL	25	\$3.55	\$3.36

### Right Angle (90°) Cable Entry (black) Backshells for Metal Shell Connectors

#### Latches, Standard Cable Opening

Part No.	Product No.	Positions	1	25
447005CM	SDH-9RBL	9	\$3.99	\$3.75
447013CM	SDH-25RBL	25	3.45	3.25

#### Latches, Large Cable Opening

Part No.	Product No.	Positions	1	25
447021CM	SDH-25RBLL	25	\$3.75	\$3.53

### Latching Blocks for Super D Adapter System

444867CM: Latching block w/ SEM screw (0.060" - 0.080" panel thickness)

444875CM: Latching block w/ SEM screw (0.080" - 0.125" panel thickness)

Part No.	Product No.	1	25
448593CM	SD-LB	\$0.59	\$0.545
444867CM	SD-LB-060-080	1.44	1.32
444875CM	SD-LB-125	1.45	1.33

## Cinch D-Sub Backshell

### SDH Series

- Fits only T-series all plastic IDC connectors



447056CM

### Straight (180°) Cable Entry (grey) Backshell for Plastic Connectors

#### Latches, Standard Cable Opening

**NEW**

Part No.	Product No.	Positions	1	25
446942CM	SDH-9GL	9	\$1.79	\$1.71

## Cinch D-Sub Metal Shell Basic



458134CM



458142CM



458177CM



458249CM

**NEW**

### D Series

- Insulator material: glass filled polyester UL94V-0 rated
- Connector shell: steel w/ zinc plating, yellow chromate finish or tin plating (grounding indents on plugs)
- 4-40 clinch nut: steel w/ cadmium plating & yellow chromate finish • Durability: 500 mating cycles
- Dual float bushing: stainless steel, passivated
- Withstanding voltage: 1250Vrms
- Contact resistance: 2.7mΩ max.
- Insulation resistance: 5000MΩ max. (initial)
- Accommodates up to 20AWG wires
- Contact material: copper alloy • Current: 5A
- Contact plating: stamped contacts – gold flash

#### Plugs w/ mounting holes

Part No.	Product No.	Positions	1	25
457959CM	DE-9P	9	\$1.95	\$1.70
458118CM	DA-15P	15	3.39	2.98
458126CM	DB-25P	25	7.75	6.91
458134CM	DC-37P	37	3.89	3.66
457975CM	DD-50P	50	6.29	5.62

#### Sockets w/ mounting holes

Part No.	Product No.	Positions	1	25
458169CM	DE-9S	9	\$2.35	\$2.07
458142CM	DA-15S	15	2.39	2.10
458151CM	DB-25S	25	3.19	2.83
457967CM	DC-37S	37	6.49	6.05
458038CM	DD-50S	50	21.39	19.16

#### Wire Wrap Plugs, 0.375" tail length, w/ mounting holes

Part No.	Product No.	Positions	1	25
458257CM	DE-9P-F179	9	\$3.19	\$2.79
458177CM	DA-15P-F179	15	3.75	3.54
458193CM	DB-25P-F179	25	5.29	5.02
458214CM	DC-37P-F179	37	7.35	6.97

#### Wire Wrap Sockets, 0.375" tail length, w/ mounting holes

Part No.	Product No.	Positions	1	25
458265CM	DE-9S-F179	9	\$4.95	\$4.49
458185CM	DA-15S-F179	15	6.55	6.35
458206CM	DB-25S-F179	25	7.99	7.56
458222CM	DC-37S-F179	37	11.49	10.77
458249CM	DD-50S-F179	50	15.15	14.39

#### Wire Wrap Plugs, 0.585" tail length, w/ mounting holes

Part No.	Product No.	Positions	1	25
458020CM	DB-25PTI-F179C	25	\$5.49	\$5.20

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Cinch D-Sub Metal Shells

### DxKL Series

- Insulator material: glass filled polyester (black) UL94V-0 rated
- Contact material: socket – phosphor bronze (stamped); plugs – brass (stamped)
- Contact plating: gold flash, tin/lead on tails over nickel
- Metal shell: steel w/ tin plating (grounding indents on plugs)
- Withstanding voltage: right angle – 1250VACrms; vertical PCB – 1000VACrms
- Current: 5A • Contact resistance: 15mΩ max.
- Insulation resistance: 5000MΩ max. (initial)
- Durability: 500 mating cycles



446547CM



446483CM

### Right Angle

- 0.318" foot print
- Boardlock: brass w/ tin plating
- Females screwlock: brass w/ nickel plating

**NEW**

#### Plugs w/ 4-40 threaded inserts

Part No.	Product No.	Positions	1	25
446547CM	DAKL-9PATI-E	9	\$0.79	\$0.73
446571CM	DAKL-15PATI-E	15	1.05	.91

#### Sockets w/ 4-40 threaded inserts

Part No.	Product No.	Positions	1	25
458046CM	DAKL-15SAT-E	15	\$1.05	\$0.91
446483CM	DBKL-25SAT-E	25	1.05	.96

#### Sockets w/ female screwlocks

Part No.	Product No.	Positions	1	25
446475CM	DBKL-25SAT-F	25	\$0.59	\$0.541

### Vertical PCB

- Straight DIP solder tails
- 0.024" contact diameter

#### Plugs

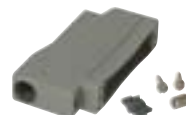
Part No.	Product No.	Positions	1	25
458097CM	DEKL-9PUTI	9	\$0.49	\$0.437
458054CM	DAKL-15PUTI	15	.92	.81
458071CM	DBKL-25PUTI	25	.73	.66

#### Sockets

Part No.	Product No.	Positions	1	25
458100CM	DEKL-9SUT	9	\$0.77	\$0.68
458062CM	DAKL-15SUT	15	.94	.83
458089CM	DBKL-25SUT	25	.91	.76

## Cinch D-Sub Plastic Hoods

- Shell material: phenolic hood—phenolic black; all plastic straight (180°) hood – nylon, gray; all plastic right angle (90°) hood—nylon, gray
- #4-40 screws: steel w/ nickel plating



446715CM

**NEW**

Part No.	Product No.	Std. Density	Description	1	25
446686CM	DE-51218-1	9	Straight ..	\$2.99	\$2.78
446694CM	DA-51210-1	15	Straight ....	3.25	3.04
446707CM	DB-51212-1	25	Straight ....	3.45	3.17
446715CM	DB-51213-1B	25	Rt. angle ...	2.55	2.36
446678CM	DB-51226-1A	25	Straight ....	2.89	2.17

For additional Cinch Connectors see [www.Jameco.com](http://www.Jameco.com).

## Cinch

### Male Screwlocks

- For junction shells and standard backshells
- Length: 0.250" (444541CM: per mil spec)

Part No.	Product No.	For use with	1	25
444592CM	D20419-0♣	Standard backshell plug 9/15; socket 9/15/25/37	\$ .29	\$ .279
444605CM	D24019-16♣	Junction shell socket 9/15/25/37 & standard backshell plug 25/37	.55	.492
444621CM	D20420-0♣	Standard shell 50	.49	.443
444541CM	M24308/25-9F♣	Standard backshell plug/socket 9/15/25/37	3.79	3.60

### Female Screwlocks

- Military MIL-C-24308
- Length: per mil spec

Part No.	Product No.	For use with	1	25
444955CM	M24308/26-1F♣	Std backshell plug/socket 9/15/25/37/50	\$ .59	\$ .55
444939CM	M24308/26-2F♣	Std backshell plug/socket 9/15/25/37/50	.85	.79

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



444605CM

## .049" (1.25mm) Shrouded Vertical Headers

### 53047 Series Value Equivalence

- Wire to board
- Blade pin
- Friction lock
- Current rating: 1A
- Voltage rating: 125V
- UL94V-0 rated
- Withstanding voltage: 250VAC/1 min.
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing material: PA polyimide (Nylon) 6/6
- Contact material: phosphor bronze
- Contact and tail plating: tin



420363CM

Part No.	Cross Ref. No.	Circuits	1	10	100
420339CM	53047-0210R	2	... \$ .33	\$ .268	\$ .192
420347CM	53047-0310R	3	... .37	.325	.235
420355CM	53047-0410R	4	... .47	.388	.28
420363CM	53047-0510R	5	... .57	.474	.336
420371CM	53047-0610R	6	... .65	.511	.369
420380CM	53047-0710R	7	... .67	.60	.43
420398CM	53047-0810R	8	... .72	.63	.456
420401CM	53047-0910R	9	... .80	.70	.501
420419CM	53047-1010R	10	... .88	.76	.547

## .049" (1.25mm) Shrouded Right Angle Headers

### 53048 Series Value Equivalence

- Wire to Board
- Blade pin
- Friction lock
- Current rating: 1A
- Voltage rating: 125V
- UL94V-0 rated
- Withstanding voltage: 250VAC/1 min.
- Contact resistance: 20mΩ max.
- Insulation resistance: 100MΩ min.
- Housing material: PA polyimide (Nylon) 6/6
- Contact material: phosphor bronze
- Contact plating: tin
- Pin size: blade



420460CM

Part No.	Cross Ref. No.	Circuits	1	10	100
420427CM	53048-0210R	2	... \$ .35	\$ .314	\$ .216
420435CM	53048-0310R	3	... .43	.383	.264
420443CM	53048-0410R	4	... .50	.433	.313
420451CM	53048-0510R	5	... .59	.545	.392
420460CM	53048-0610R	6	... .64	.556	.403
420478CM	53048-0710R	7	... .63	.54	.391
420486CM	53048-0810R	8	... .79	.68	.493
420494CM	53048-0910R	9	... .88	.75	.539
420507CM	53048-1010R	10	... .98	.94	.63

## .049" (1.25mm) Pitch Housing

### 51021 Series Value Equivalence

- Wire to board or wire to wire
- UL94V-0 rated
- Current rating: 1A
- Voltage rating: 125V
- Contact resistance: 20mΩ
- Insulation resistance: 100MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.



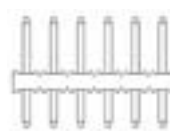
420321CM

Part No.	Cross Ref. No.	Circuits	1	10	100
420241CM	51021-0200R	2	... \$ .23	\$ .178	\$ .123
420259CM	51021-0300R	3	... .23	.217	.157
420267CM	51021-0400R	4	... .25	.233	.168
420275CM	51021-0500R	5	... .29	.26	.216
420283CM	51021-0600R	6	... .32	.268	.21
420291CM	51021-0700R	7	... .36	.308	.244
420304CM	51021-0800R	8	... .39	.34	.254
420312CM	51021-0900R	9	... .42	.363	.296
420321CM	51021-1000R	10	... .45	.387	.304

## .079" (2.0mm) Dual Row Vertical Headers

### 87758 Series Value Equivalence

- Wire to board or wire to wire
- UL94V-0 rated
- Current rating: 1A
- Voltage rating: 125V
- Contact resistance: 20mΩ
- Insulation resistance: 100MΩ min.
- Housing material: PBT polyester
- Dielectric withstanding voltage: 250VAC/1 min.



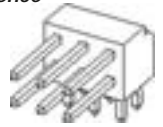
378581CM

Part No.	Cross Ref. No.	Circuits	1	10	100
378521CM	87758-0416R	4	... \$ .35	\$ .292	\$ .24
378530CM	87758-0616R	6	... .67	.57	.418
378548CM	87758-0816R	8	... .68	.57	.464
378556CM	87758-1016R	10	... .58	.489	.40
378564CM	87758-1216R	12	... .72	.61	.496
378572CM	87758-1416R	14	... .75	.63	.512
378581CM	87758-1616R	16	... .78	.66	.528
378599CM	87758-1816R	18	... .89	.74	.60
378601CM	87758-2016R	20	... 1.15	.96	.78
378610CM	87758-2216R	22	... 1.16	.98	.79
378628CM	87758-2416R	24	... 1.19	1.00	.81
378636CM	87758-2616R	26	... 1.39	1.18	.96
378652CM	87758-3016R	30	... 1.49	1.26	1.02
378708CM	87758-4016R	40	... 1.89	1.60	1.30
378724CM	87758-4416R	44	... 2.09	1.76	1.42
378759CM	87758-5016R	50	... 2.09	1.80	1.46

## .079" (2.0mm) Pitch Milli-Grid Right Angle Headers

### 87760 Series Value Equivalence

- Current rating: 2A
- Voltage rating: 125V
- Under plating: nickel
- UL94V-0 rated
- Withstanding voltage: 500VAC
- Contact Resistance: 25mΩ max.
- Insulation resistance: 1000MΩ
- Housing material: PCT Polyester, glass filled
- Contact: Phosphor bronze
- Contact plating: 0.38μm (15μ") gold selective
- Plating tail: 1.9μm (75μ") tin
- Pin size: 0.50mm (0.20") square



378804CM

Part No.	Cross Ref. No.	Circuits	1	10	100
378775CM	87760-0616R	6	... \$ .46	\$ .435	\$ .343
378783CM	87760-0816R	8	... .49	.418	.336
378804CM	87760-1216R	12	... .72	.61	.496
378812CM	87760-1416R	14	... .76	.64	.52
378821CM	87760-1616R	16	... 1.06	.896	.712
378839CM	87760-1816R	18	... .91	.79	.62
378847CM	87760-2016R	20	... .91	.79	.62

## .079" (2.0mm) Pitch Milli-Grid Housing

### 51110 Series Value Equivalence

- Housing: polyester, glass filled
- Temperature: -55°C to +105°C
- Vertical wire entry angle
- Dual row





377991CM

### w/o Polarizing Key

Part No.	Cross Ref. No.	Circuits	1	10	100
377975CM	51110-0450R	4	... \$ .25	\$ .158	\$ .128
377983CM	51110-0650R	6	... .26	.166	.16
377991CM	51110-0850R	8	... .27	.173	.143
378003CM	51110-1050R	10	... .29	.19	.152
378011CM	51110-1250R	12	... .31	.197	.184
378020CM	51110-1450R	14	... .36	.284	.256
378038CM	51110-1650R	16	... .44	.276	.224
378046CM	51110-1850R	18	... .47	.30	.24
378054CM	51110-2050R	20	... .52	.331	.272
378062CM	51110-2250R	22	... .68	.61	.408
378071CM	51110-2450R	24	... .63	.402	.32
378089CM	51110-2650R	26	... .68	.426	.40
378097CM	51110-2850R	28	... .75	.466	.376
378100CM	51110-3050R	30	... .79	.497	.40

### w/ Polarizing Key

Part No.	Cross Ref. No.	Circuits	1	10	100
378142CM	51110-0851R	8	... \$ .28	\$ .173	\$ .144
378151CM	51110-1051R	10	... .30	.189	.152
378169CM	51110-1251R	12	... .31	.197	.16
378177CM	51110-1451R	14	... .37	.229	.184
378185CM	51110-1651R	16	... .44	.276	.224
378193CM	51110-1851R	18	... .57	.505	.344
378206CM	51110-2051R	20	... .63	.55	.376
378214CM	51110-2251R	22	... .68	.61	.408
378222CM	51110-2451R	24	... .74	.66	.44
378231CM	51110-2651R	26	... .75	.71	.522
378249CM	51110-2851R	28	... .77	.466	.376
378257CM	51110-3051R	30	... .90	.529	.352

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



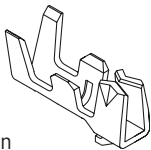


## .049" (1.25mm)

### Pitch Crimp Terminals

#### For 51021 Series Value Equivalence

- Female crimp pins
- 668457CM 26-28AWG;
- 668473CM: 28-32AWG
- Contact material: phosphor bronze
- Pre-plated
- Plating contact: 0.9um (35µ") tin



Part No.	Product No.	1	10	100	500
668457CM	50079-8100	.....\$ .20	.....\$ .113	.....\$ .107	.....\$ .10
668473CM	50058-8100	.....\$ .20	.....\$ .113	.....\$ .107	.....\$ .10



## Milli-Grid™ Crimp Terminal

#### For 51110 Series Value Equivalence

- Female crimp pin
- Lead free
- 24-30AWG
- Contact material: phosphor bronze
- Plating contact: 0.38um (15µ") gold
- Under plating: nickel



Part No.	Product No.	1	10	100	500
668465CM	50394-8100	.....\$ .20	.....\$ .103	.....\$ .095	.....\$ .086



## .062" (1.57mm) Contacts

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating
- Minimum order 10 pieces

#### Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224565CM	02-06-2103	♂ M	18-24	.....\$ .18	.....\$ .057	.....\$ .038
224581CM	02-06-2132	♂ M	24-30	.....\$ .18	.....\$ .057	.....\$ .038
224557CM	02-06-1103	♀ F	18-24	.....\$ .18	.....\$ .057	.....\$ .038
224573CM	02-06-1132	♀ F	24-30	.....\$ .18	.....\$ .057	.....\$ .038

#### Solder-Tail Contacts



Part No.	Product No.	Gender	10	100	1000
227379CM	02-06-8103	♂ Male	.....\$ .18	.....\$ .11	.....\$ .066
227387CM	02-06-7103	♀ Female	.....\$ .18	.....\$ .11	.....\$ .066



## .062" Power Connector Kit

This assortment kit contains mating sets of housings and pins.

- Voltage: 250VAC
- Current: 5A
- Temperature range: -40°C to +105°C

Includes: 3 ea. 2-pin plugs and 2-pin receptacles, 8 ea. male contacts and 8 ea. female contacts.



Part No.	Product No.	Description	1	10	50
142113CM	1625-2	Kit	.....\$5.69	.....\$5.15	.....\$4.59

## .062" (1.57mm) Power Connectors

- Passive friction lock
- Housing: nylon; UL94V-2
- Voltage: 250V
- Current: 5.0A
- Polarized housing assures proper mating
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C

#### Plugs



Part No.	Product No.	Circuits	1	10	100
224477CM	03-06-2011	♂ *	.....\$ .29	.....\$ .16	.....\$ .13
224485CM	03-06-2023	♂ *	.....\$ .30	.....\$ .18	.....\$ .15
224493CM	03-06-2032	♂ *	.....\$ .31	.....\$ .19	.....\$ .16
224506CM	03-06-2042	♂ *	.....\$ .39	.....\$ .22	.....\$ .205
224514CM	03-06-2044	♂ *	.....\$ .39	.....\$ .27	.....\$ .24
230244CM	03-06-2055	♂ *	.....\$ .47	.....\$ .26	.....\$ .24
224522CM	03-06-2061	♂ **	.....\$ .45	.....\$ .28	.....\$ .25
224531CM	03-06-2092	♂ **	.....\$ .49	.....\$ .27	.....\$ .24
224549CM	03-06-2122	♂ **	.....\$ .52	.....\$ .30	.....\$ .25

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229948CM	03-06-2024	♂ *	.....\$ .30	.....\$ .17	.....\$ .14
229964CM	03-06-2033	♂ *	.....\$ .35	.....\$ .18	.....\$ .15
229981CM	03-06-2041	♂ *	.....\$ .47	.....\$ .23	.....\$ .216
230009CM	03-06-2043	♂ **	.....\$ .47	.....\$ .26	.....\$ .24
230025CM	03-06-2054	♂ *	.....\$ .47	.....\$ .25	.....\$ .235
230041CM	03-06-2062	♂ **	.....\$ .47	.....\$ .26	.....\$ .24
230068CM	03-06-2091	♂ **	.....\$ .47	.....\$ .26	.....\$ .24
230084CM	03-06-2121	♂ **	.....\$ .55	.....\$ .29	.....\$ .26

\*In-line \*\*Grid

#### Receptacles



Part No.	Product No.	Circuits	1	10	100
224397CM	03-06-1011	♂ *	.....\$ .089	.....\$ .067	.....\$ .067
224400CM	03-06-1023	♂ *	.....\$ .30	.....\$ .18	.....\$ .135
224418CM	03-06-1032	♂ *	.....\$ .31	.....\$ .19	.....\$ .16
224426CM	03-06-1042	♂ *	.....\$ .39	.....\$ .35	.....\$ .203
224434CM	03-06-1044	♂ **	.....\$ .39	.....\$ .27	.....\$ .24
230252CM	03-06-1056	♂ *	.....\$ .55	.....\$ .36	.....\$ .333
224442CM	03-06-1062	♂ **	.....\$ .45	.....\$ .28	.....\$ .25
224451CM	03-06-1092	♂ **	.....\$ .32	.....\$ .24	.....\$ .22
224469CM	03-06-1122	♂ **	.....\$ .52	.....\$ .30	.....\$ .25

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
229956CM	03-06-1022	♂ *	.....\$ .31	.....\$ .16	.....\$ .14
229972CM	03-06-1038	♂ *	.....\$ .30	.....\$ .15	.....\$ .112
229999CM	03-06-1041	♂ *	.....\$ .49	.....\$ .23	.....\$ .216
230017CM	03-06-1043	♂ **	.....\$ .49	.....\$ .26	.....\$ .23
230033CM	03-06-1055	♂ *	.....\$ .59	.....\$ .38	.....\$ .27
230050CM	03-06-1061	♂ *	.....\$ .47	.....\$ .26	.....\$ .23
230076CM	03-06-1091	♂ **	.....\$ .35	.....\$ .325	.....\$ .243
230092CM	03-06-1121	♂ **	.....\$ .49	.....\$ .33	.....\$ .30

\*In-line \*\*Grid

To Find Additional Products In This Series,  
Visit [www.Jameco.com/Prod/Molex062](http://www.Jameco.com/Prod/Molex062)

## .093" (2.36mm) Power Connectors

- Passive friction lock
- Housing: nylon; UL94V-2
- Voltage: 250V
- Current: 12A per circuit
- Dielectric withstanding voltage: 1500VAC<sub>RMS</sub>
- Contact retention to housing: 20 lbs. minimum
- Temp. range: -40°C to +105°C

#### Plugs



Part No.	Product No.	Circuits	1	10	100
224063CM	03-09-2011	♂ *	.....\$ .094	.....\$ .07	.....\$ .07
224071CM	03-09-2022	♂ *	.....\$ .30	.....\$ .25	.....\$ .18
224080CM	03-09-2032	♂ *	.....\$ .41	.....\$ .32	.....\$ .21
224098CM	03-09-2042	♂ *	.....\$ .45	.....\$ .22	.....\$ .20
229825CM	03-09-2049	♂ **	.....\$ .45	.....\$ .34	.....\$ .26
230261CM	03-09-2057	♂ *	.....\$ .49	.....\$ .30	.....\$ .225
224101CM	03-09-2062	♂ **	.....\$ .49	.....\$ .39	.....\$ .29
224119CM	03-09-2092	♂ **	.....\$ .55	.....\$ .20	.....\$ .197
224127CM	03-09-2121	♂ **	.....\$ .69	.....\$ .59	.....\$ .39
462432CM	03-09-2151	♂ **	.....\$ .59	.....\$ .485	.....\$ .485
462441CM	03-09-2158	♂ **	.....\$ .58	.....\$ .54	.....\$ .54

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230105CM	03-09-2021	♂ *	.....\$ .35	.....\$ .18	.....\$ .16
230121CM	03-09-2031	♂ *	.....\$ .30	.....\$ .282	.....\$ .212
230148CM	03-09-2041	♂ *	.....\$ .42	.....\$ .22	.....\$ .20
230164CM	03-09-2040	♂ **	.....\$ .64	.....\$ .59	.....\$ .35
230181CM	03-09-2061	♂ **	.....\$ .35	.....\$ .33	.....\$ .25
230201CM	03-09-2091	♂ **	.....\$ .65	.....\$ .35	.....\$ .31
230228CM	03-09-2122	♂ **	.....\$ .71	.....\$ .38	.....\$ .35
462459CM	03-09-2159	♂ **	.....\$ .72	.....\$ .62	.....\$ .62

\*In-line \*\*Grid

#### Receptacles



Part No.	Product No.	Circuits	1	10	100
224135CM	03-09-1011	♂ *	.....\$ .59	.....\$ .29	.....\$ .09
224143CM	03-09-1022	♂ *	.....\$ .30	.....\$ .25	.....\$ .18
224151CM	03-09-1032	♂ *	.....\$ .44	.....\$ .25	.....\$ .16
224160CM	03-09-1042	♂ *	.....\$ .46	.....\$ .25	.....\$ .22
229817CM	03-09-1049	♂ **	.....\$ .46	.....\$ .33	.....\$ .25
230279CM	03-09-1057	♂ *	.....\$ .48	.....\$ .41	.....\$ .31
224178CM	03-09-1064	♂ **	.....\$ .49	.....\$ .23	.....\$ .20
224186CM	03-09-1094	♂ **	.....\$ .69	.....\$ .59	.....\$ .39
224194CM	03-09-1126	♂ **	.....\$ .65	.....\$ .61	.....\$ .457

\*In-line \*\*Grid

#### With Mounting Ears

Part No.	Product No.	Circuits	1	10	100
230113CM	03-09-1027	♂ *	.....\$ .35	.....\$ .17	.....\$ .15
230130CM	03-09-1081	♂ *	.....\$ .48	.....\$ .24	.....\$ .22
230156CM	03-09-1041	♂ *	.....\$ .40	.....\$ .23	.....\$ .17
230172CM	03-09-1040	♂ **	.....\$ .48	.....\$ .42	.....\$ .25
230199CM	03-09-1061	♂ *	.....\$ .49	.....\$ .30	.....\$ .26
230210CM	03-09-1091	♂ **	.....\$ .49	.....\$ .38	.....\$ .254
230236CM	03-09-1125	♂ **	.....\$ .55	.....\$ .47	.....\$ .352

\*In-line \*\*Grid

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

To Find Additional Products In This Series,  
Visit [www.Jameco.com/Prod/Molex093](http://www.Jameco.com/Prod/Molex093)

## .093" (2.36mm) Contacts

- Contact: brass or phosphor bronze
- Tin plating
- Temperature range: -40°C to +105°C
- Minimum order 10 pieces

### Crimp-Type Contacts



Part No.	Product No.	Gender	AWG	10	100	1000
224207CM	02-09-2118	M	18-22	.....	\$.19	\$.06
224223CM	02-09-2103	M	14-20	.....	.18	.059
224215CM	02-09-1119	F	18-22	.....	.20	.07
224231CM	02-09-1104	F	14-20	.....	.18	.059

### Solder-Tail Contacts



Part No.	Product No.	Gender	10	100	1000
224240CM	02-09-2133	Male	.....	\$.149	\$.129
224258CM	02-09-1134	Female	.....	.20	.14

To Find Additional Products In This Series,  
 Visit [www.Jameco.com/Prod/Molex093](http://www.Jameco.com/Prod/Molex093)

## .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins.

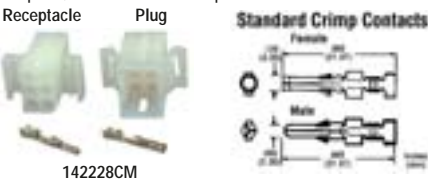
- Voltage: 250VAC
- Temperature range: -40°C to +105°C

**142181CM:** • 3 ea. 2-pin plugs & receptacles,  
 8 ea. female & male contacts • Current: 12A

**142201CM:** • 2 ea. 4-pin plugs & receptacles,  
 10 ea. female & male contacts • Current: 9A

**142228CM:** • 2 ea. 6-pin plugs & receptacles,  
 14 ea. female & male contacts • Current: 9A

**Includes:** Male and female tin-plated standard brass  
 .010" pins; 18-22 AWG crimp size wire



Part No.	Product No.	Description	1	10	50
142181CM	1545	2-pin kit	\$4.95	\$4.49	\$3.95
142201CM	1490	4-pin kit	5.69	5.15	4.65
142228CM	1261	6-pin kit	5.25	4.75	3.95

## Extraction Tools for Crimp Pins

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"
- See pages 126 and 149 for crimp pins

**131887CM:** Male tool for 42729CM

**131879CM:** Female tool for 42649CM

Part No.	Product No.	1	10
131887CM	HT319C	\$10.95	\$8.21
131879CM	HT319B	11.29	8.47

## .079" (2.00mm) Pitch Micro SPOX™ Connectors

### Wire to Board

- Single row
- Pitch/center spacing: 2.0mm (0.079")
- Housing: PA Polyamide (nylon) 6/6
- UL94V-0 Rated
- Voltage rating: 125V
- Contact resistance: 20mΩ max.
- Insulation resistance: 1000MΩ min.



**NEW**

\* Prepackaged: please order in increments of 10 or 100

### Female Housing

- Vertical wire entry

Part No.	Product No.	Positions	1	10	100
520591CM	10-01-4024	2	.....	\$.22	\$.209
520655CM	10-01-4084	8	.....	.43	.391

### Vertical Header with Friction Lock

- Current: 1A
- Withstanding voltage: 500VAC/1 min.
- Contact: brass, tin plated, copper underplating

Part No.	Product No.	Positions	1	10	100
520786CM	10-32-1023	2	.....	\$.30	\$.283
520858CM	10-32-1033	3	.....	.36	.345
520866CM	10-32-1043	4	.....	.43	.405
520882CM	10-32-1063	6	.....	.56	.534
520891CM	10-32-1073	7	.....	.62	.59
520903CM	10-32-1083	8	.....	.62	.596

### Female Crimp Terminal

- Contact: phosphor bronze pre tin plating • 22-30AWG
- 10 piece minimum

Part No.	Product No.	10	100	500
463048CM	08-70-0072	.....	\$.045	\$.043

## Hand Crimp Tools

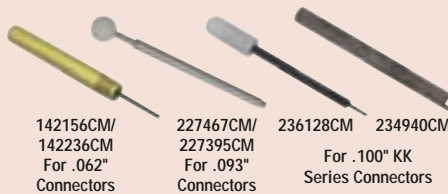
These tools are designed to crimp terminals, strip and cut wires, and cut bolts. For Molex crimp pin terminals with .062", .093" diameters and KK® series on page 130.



**308030CM:** Cuts & strips 14-24 AWG wires  
**227491CM:** Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030CM	W-HT-1919	8.3"L	Red	.....	\$14.99
227491CM	W-HT-1921	8.3"L	Yellow	.....	14.99

## Connector Extraction Tools



Part No.	Product No.	AWG	1	10
142156CM	W-HT-2285	18-30	.....	\$14.49
227467CM	W-HT-2023	18-30	.....	11.99
142236CM	W-HT-2038	14-30	.....	14.49
227395CM	W-HT-2054	14-30	.....	11.99
236128CM	W-HT-1884	22-30	.....	9.99
234940CM	11-03-0022	22-30	.....	14.99

## MLX Series .084" (2.13mm) Power Connectors

- Intermateable, intermountable, and interchangeable with industry standard versions
- Positive locks
- PCB vertical header
- Fully isolated contacts
- Contact resistance: 3.5mΩ max.
- Dielectric withstanding voltage: 2900V
- Insulation resistance: 1000MΩ min.
- Header contacts: phosphor bronze with tin plating
- Operating temperature: -55°C to +105°C



**NEW**

522280CM

### Socket Housing (RED, polyester, 94V-0 rated)

Part No.	Product Number	Current Rating (A)	Pos.	Matrix	1	10
522327CM	10-84-4023	13.5	2	1 x 2	\$.22	\$.209
522335CM	10-84-4043	13.5	4	1 x 4	.35	.338
522343CM	10-84-4063	11.0	6	2 x 3	.54	.516
522351CM	10-84-4093	11.0	9	3 x 3	.79	.75
522301CM	10-84-4123	11.0	12	3 x 4	1.05	1.01
522319CM	10-84-4153	11.0	15	3 x 5	1.29	1.24

### Socket Housing (WHITE, nylon 6/6, 94V-2 rated)

Part No.	Product Number	Current Rating (A)	Pos.	Matrix	1	10
522431CM	10-84-4042	13.5	4	1 x 4	\$.33	\$.314
522271CM	10-84-4062	11.0	6	2 x 3	.50	.475
522280CM	10-84-4092	11.0	9	3 x 3	.68	.63
522255CM	10-84-4122	11.0	12	3 x 4	.93	.89
522263CM	10-84-4152	11.0	15	3 x 5	1.20	1.11

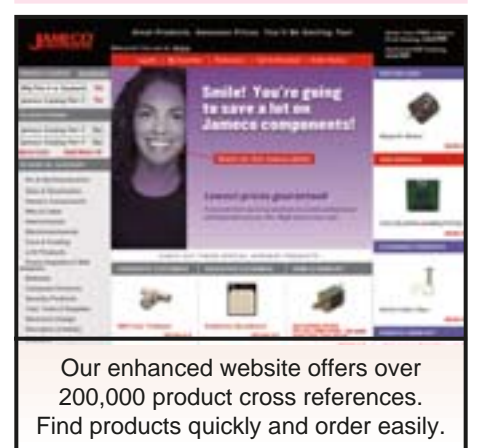
### Socket Housing (RED, 94V-0 rated)

Part No.	Product Number	Current Rating (A)	Pos.	Matrix	1	10
522298CM	10-84-4127	11.0*	12	3 x 4	\$2.29	\$2.17

\* Pins: 30m" select gold

### Socket Housing (WHITE, polyester, 94V-0 rated)

Part No.	Product Number	Current Rating (A)	Pos.	Matrix	1	10
522386CM	10-84-5021	13.5	2	1 x 2	\$.24	\$.221
522394CM	10-84-5031	13.5	3	1 x 3	.65	.62
522407CM	10-84-5041	13.5	4	1 x 4	.79	.75
522415CM	10-84-5061	11.0	6	2 x 3	.75	.70
522423CM	10-84-5091	11.0	9	3 x 3	.75	.71
522360CM	10-94-5121	11.0	12	3 x 4	1.35	1.30
522378CM	10-84-5151	11.0	15	3 x 5	1.29	1.24



Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.

\* These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.





## .084" (2.13mm) Pin and Socket Connectors

### .084" Molex 42002/42021/42022 Series Value Equivalents

- Interchangeable, interchangeable, and intermountable with industry-standard versions
- Positive locks
- Circuit ID grooves to reduce assembly errors
- Material: Nylon 94V-2, white
- Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 2900V (header); 5000V (wire to wire)
- Fully isolated contacts
- Anti-stress positioning tabs to reduce breakage
- Operating temp: -55°C to +105°C
- Contact resistance: 3.5mΩ max.
- Plating: tin
- Voltage: 600V



379284CM  
(Fig. 1)



379356CM  
(Fig. 2)



379461CM  
(Fig. 3)

### Plugs (Fig. 1)

#### 42021 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379241CM	50-84-1020	1 x 2	13.5	\$.20	\$.142	\$.120
379250CM	50-84-1030	1 x 3	13.5	.21	.158	.136
379268CM	50-84-1040	1 x 4	13.5	.25	.190	.160
379276CM	50-84-1060	2 x 3	11	... .27	.205	.176
379284CM	50-84-1090	3 x 3	11	... .28	.221	.192
379292CM	50-84-1120	3 x 4	11	... .34	.261	.224
379305CM	50-84-1120	3 x 5	11	... .37	.285	.256

\* Grid layout is rows x columns

### Receptacles (Fig. 2)

#### 42022 Series Value Equivalents

- Mates with series 42021 plugs

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379313CM	50-84-2020	1 x 2	13.5	\$.20	\$.142	\$.120
379321CM	50-84-2030	1 x 3	13.5	.21	.158	.136
379330CM	50-84-2040	1 x 4	13.5	.25	.190	.160
379348CM	50-84-2060	2 x 3	11	... .27	.205	.176
379356CM	50-84-2090	3 x 3	11	... .28	.221	.192
379364CM	50-84-2120	3 x 4	11	... .34	.261	.224
379372CM	50-84-2150	3 x 5	11	... .37	.285	.256

\* Grid layout is rows x columns

### Vertical Male Headers (Fig. 3)

#### 42002 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379381CM	10-84-4020	1 x 2	13.5	\$.51	\$.411	\$.36
379401CM	10-84-4030	1 x 3	13.5	.58	.458	.40
379428CM	10-84-4040	1 x 4	13.5	.60	.45	.384
379444CM	10-84-4060	2 x 3	11	.70	.687	.592
379461CM	10-84-4090	3 x 3	11	.72	.561	.52
379487CM	10-84-4120	3 x 4	11	.83	.68	.64
379508CM	10-84-4150	3 x 5	11	1.05	.758	.696

\* Grid layout is rows x columns

### Vertical Female Headers (Fig. 3)

#### 42002 Series Value Equivalents

- Mates w/ Series 42022 receptacles & 42002 headers

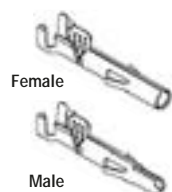
Part No.	Cross Ref. No.	Grid Layout*	A/Circuit Max	1	10	100
379399CM	10-84-4022	1 x 2	13.5	\$.32	\$.269	\$.24
379410CM	10-84-4032	1 x 3	13.5	.25	.244	.208
379436CM	10-84-4042	1 x 4	13.5	.48	.395	.344
379452CM	10-84-4062	2 x 3	11	... .70	.553	.48
379479CM	10-84-4092	3 x 3	11	... .63	.593	.56
379495CM	10-84-4122	3 x 4	11	... .81	.687	.616
379516CM	10-84-4152	3 x 5	11	... .99	.727	.672

\* Grid layout is rows x columns

### Contacts

#### Type\*:

- 1: Female
  - 2: Male
  - A: Brass
  - B: Phosphor bronze
  - C: Brass standard insertion
  - D: Brass low insertion
- Minimum order 10 pieces



Part No.	Cross Ref. No.	AWG	Type*	10	100	500
401314CM	71T-D224-LP	12-14	1A	\$.075	\$.062	\$.054
401331CM	71T-D524-LP	12-14	1B	.07	.067	.064
379524CM	71T-5224-LP	16-20	1A	.075	.062	.054
379532CM	71T-5524-LP	16-20	1B	.07	.067	.064
401306CM	71T-S224-LP	18-22	1A	.075	.062	.054
401322CM	71T-S524-LP	18-22	1B	.07	.067	.064
401357CM	70T-D214-LP	12-14	2A	.073	.066	.051
401373CM	70T-D2L4-LP	12-14	2D	.073	.066	.051
379541CM	70T-5214-LP	16-20	2C	.073	.066	.051
398784CM	70T-52L4-LP	16-20	2C	.073	.066	.051
401349CM	70T-S214-LP	18-22	2A	.073	.066	.051
401365CM	70T-S2L4-LP	18-22	2D	.073	.066	.051

† For 6-15 circuit connectors • Blue Part No. = Limited Quantity

## AMP MTA-100 (.100") Strain Relief Covers

- Closed End
- UL94V-2 rated, white nylon
- Dust cover: UL94V-0 rated, white polyester

\* Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Positions	1	10	100
525149CM	643075-2	2	... *	\$.176	\$.168
525157CM	643075-4	4	... .29	.276	.22
525165CM	643075-5	5	... *	.518	.478
525173CM	643075-6	6	... .21	.20	.19

For AMP MTA-156 connectors see page 134



## C-Grid™ .100" (2.54mm) Pitch Breakaway Headers

### High Profile .220"H, Dual Row, Right Angle

- Voltage: 250V
- Current: 3A
- Contact resistance: 15mΩ max.
- Contacts: phosphor bronze
- Dielectric w/standing voltage: 1500V
- Insulation resistance: 1000MΩ min.

NEW



514466CM

Part No.	Product No.	Positions	1	10	100
514095CM	10-89-4042	4	... \$.63	\$.60	\$.57
514301CM	10-89-4062	6	... .82	.78	.74
514431CM	10-89-4082	8	... .98	.93	.88
513720CM	10-89-4106	10	... 1.55	1.46	1.39
513754CM	10-89-4146	14	... 2.05	1.95	1.86
513762CM	10-89-4162	16	... 1.69	1.58	1.50
513789CM	10-89-4182	18	... 1.95	1.81	1.72
513800CM	10-89-4202	20	... 1.99	1.90	1.81
513842CM	10-89-4242	24	... 2.45	2.31	2.20
513869CM	10-89-4262	26	... 2.65	2.48	2.32
513906CM	10-89-4302	30	... 3.15	3.00	2.86
513949CM	10-89-4342	34	... 3.45	3.27	3.11
514001CM	10-89-4406	40	... 6.05	5.72	5.45
514183CM	10-89-4566	56	... 8.05	7.65	7.28
514280CM	10-89-4682	68	... 6.69	6.38	6.08

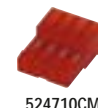
### Dual Row, Vertical, High Temperature

Part No.	Cross Ref.	Positions	1	10	100
514600CM	10-89-7042	4	... \$.24	\$.209	\$.186
514618CM	10-89-7062	6	... .34	.295	.239
514651CM	10-89-7082	8	... .46	.399	.319
514466CM	10-89-7102	10	... .65	.57	.445
514503CM	10-89-7142	14	... .92	.80	.57
514520CM	10-89-7162	16	... 1.15	1.01	.73
514546CM	10-89-7202	20	... 1.38	1.21	.87
514554CM	10-89-7242	24	... 1.99	1.74	1.25
514571CM	10-89-7302	30	... 2.09	1.82	1.30
514589CM	10-89-7342	34	... 2.35	2.06	1.47
514597CM	10-89-7402	40	... 2.79	2.42	1.72
514634CM	10-89-7802	80	... 6.35	5.53	3.96



## MTA-100 (.100") IDC Connectors

- Voltage rating: 250VAC
- Current rating: 5A
- Low-level resistance: 6mΩ max. initial
- Dielectric withstanding voltage: 750VAC/1 min.
- Insulation resistance: 50k MΩ min.
- Contacts: phosphor bronze, tin-plated



524710CM



524761CM

\* Prepackaged: please order in increments of 10, 100 or 1000

### Closed End w/o tabs

Part No.	Product No.	Pos.	AWG	Color	1	10
524699CM	640440-2	2	22	Red	...	* \$.059
524701CM	640440-3	3	22	Red	...	* .071
524710CM	640440-4	4	22	Red	...	* .156
524728CM	640440-5	5	22	Red	...	* .156
524736CM	640440-6	6	22	Red	...	* .161
524744CM	640440-7	7	22	Red	...	* .20
524752CM	640440-8	8	22	Red	...	* .28
524761CM	640441-2	2	24	White	...	* .082
524779CM	640441-3	3	24	White	...	* .072
524787CM	640441-5	4	24	White	...	* .072
524795CM	640441-5	5	24	White	...	* .15
524808CM	640441-6	6	24	White	...	* .161
524816CM	640441-8	8	24	White	...	* .267

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

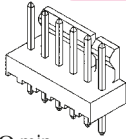


## .100" (2.54mm) Pitch Solid Headers

JAMECO  
ValuePro

### Straight Friction Lock

- Voltage rating: 250VAC
- Current rating: 3A
- Contact resistance: 20mΩ max.
- Contact material: brass, tin plated(0.64mm) 0.025" square posts
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 1,000VAC/ 1minute



**NEW**

Part No.	Cross Ref. No.	Pos.	1	10	25
687957CM	22-23-2021	R 2	..... \$ .20	\$ .142	\$ .135
687965CM	22-23-2031	R 3	..... .21	.198	.19
687973CM	22-23-2041	R 4	..... .26	.252	.241
687981CM	22-23-2051	R 5	..... .31	.30	.287
687990CM	22-23-2061	R 6	..... .36	.344	.329
688001CM	22-23-2071	R 7	..... .31	.302	.289
688028CM	22-23-2081	R 8	..... .48	.468	.447
688036CM	22-23-2091	R 9	..... .53	.51	.488
688044CM	22-23-2101	R 10	..... .42	.403	.386
688052CM	22-23-2111	R 11	..... .60	.58	.56
688061CM	22-23-2121	R 12	..... .50	.481	.46

## .100" (2.54mm) Pitch PCB Connectors

JAMECO  
ValuePro

### Receptacle, Bottom Entry

- Tin plated solder tail terminals
- Accepts 0.025" (0.64mm) square posts
- Voltage rating: 250VAC
- Current rating: 3A
- Contact resistance: 40mΩ max.
- Contact material: brass
- Insulation resistance: 1,000MΩ min.
- Insulation material: nylon 6/6, UL94V-2
- Withstanding voltage: 1,000VAC/1 minute



**NEW**

Part No.	Cross Ref. No.	Pos.	1	10	25
687359CM	22-14-2024	R 2	..... \$ .27	\$ .237	\$ .225
687367CM	22-14-2034	R 3	..... .27	.25	.23
687375CM	22-14-2044	R 4	..... .46	.411	.406
687383CM	22-14-2054	R 5	..... .56	.498	.485
687391CM	22-14-2064	R 6	..... .66	.58	.55
687404CM	22-14-2074	R 7	..... .75	.67	.65
687412CM	22-14-2084	R 8	..... .77	.71	.66
687421CM	22-14-2094	R 9	..... .73	.68	.63
687439CM	22-14-2104	R 10	..... .92	.85	.78
687447CM	22-12-2114	R 11	..... 1.05	.98	.90
687455CM	22-12-2124	R 12	..... 1.15	1.07	.98

**AMP**

## MTA-100 (.100") Solid Headers

- 0.025" square posts
- Tin-plated
- Housing: nylon UL94V-0 rated, white polyester
- Posts: copper alloy, tin plated



\* Prepackaged: please order in increments of 10 or 100

### Right Angle Friction Lock

Part No.	Product No.	Positions	1	10	100
524859CM	640457-2♣	2	..... *	\$ .039	\$ .037
524867CM	640457-3♣	3	..... *	.071	.052
524875CM	640457-4♣	4	..... *	.072	.068
524883CM	640457-5♣	5	..... *	.089	.083
524891CM	640457-6♣	6	..... *	.098	.094

**NEW**

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New Sale Lower\$ QtySave**

## .100" (2.54mm) Male Breakaway Headers

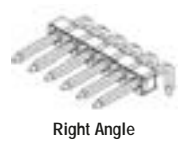
JAMECO ValuePro

- Voltage rating: 250VDC
- Current rating: 3A
- Contact resistance: 20mΩ initial max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 500VAC/1 minute
- Housing: glass filled polyester, black (UL94V-0)
- Contact: 0.64mm (0.025") square

**NEW**



Straight



Right Angle

### Straight Single Row Breakaway Headers (Tin)

(A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685708CM	22-28-4022	R 2	..... \$ .20	\$ .066	\$ .063
685716CM	22-28-4032	R 3	..... .20	.119	.113
685724CM	22-28-4042	R 4	..... .20	.166	.158
685732CM	22-28-4052	R 5	..... .24	.225	.214
685741CM	22-28-4062	R 6	..... .28	.261	.249
685759CM	22-28-4072	R 7	..... .52	.427	.406
685767CM	22-28-4082	R 8	..... .33	.308	.298
685775CM	22-28-4092	R 9	..... .52	.482	.465
685783CM	22-28-4102	R 10	..... .37	.348	.339
685791CM	22-28-4112	R 11	..... .50	.482	.461
685804CM	22-28-4122	R 12	..... .37	.359	.343

### Straight Single Row Breakaway Headers (Tin)

(A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686188CM	22-28-4020	R 2	..... \$ .21	\$ .182	\$ .173
686196CM	22-28-4030	R 3	..... .20	.174	.165
686209CM	22-28-4040	R 4	..... .27	.245	.233
686217CM	22-28-4050	R 5	..... .31	.284	.27
686225CM	22-28-4060	R 6	..... .33	.284	.27
686233CM	22-28-4070	R 7	..... .33	.30	.285
686241CM	22-28-4080	R 8	..... .37	.332	.315
686250CM	22-28-4090	R 9	..... .43	.371	.352
686268CM	22-28-4100	R 10	..... .44	.379	.36
686276CM	22-28-4360	R 36	..... .90	.78	.74

### Straight Single Row Breakaway Headers (Gold)

(A) .286"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685839CM	22-28-4025	R 2	..... \$ .41	\$ .371	\$ .353
685847CM	22-28-4035	R 3	..... .38	.362	.344
685855CM	22-28-4045	R 4	..... .73	.61	.58
685863CM	22-28-4055	R 5	..... .80	.78	.74
685871CM	22-28-4065	R 6	..... 1.08	.96	.91
685880CM	22-28-4075	R 7	..... .81	.77	.74
685898CM	22-28-4085	R 8	..... 1.36	1.21	1.16
685901CM	22-28-4095	R 9	..... 1.55	1.35	1.32
685919CM	22-28-4105	R 10	..... 1.69	1.50	1.47
685927CM	22-28-4115	R 11	..... 1.89	1.65	1.57
685935CM	22-28-4125	R 12	..... 1.99	1.78	1.75

### Straight Single Row Breakaway Headers (Gold)

(A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686292CM	22-28-4023	R 2	..... \$ .20	\$ .182	\$ .173
686305CM	22-28-4033	R 3	..... .27	.245	.233
686313CM	22-28-4043	R 4	..... .28	.253	.24
686321CM	22-28-4053	R 5	..... .29	.261	.248
686330CM	22-28-4063	R 6	..... .29	.261	.248
686348CM	22-28-4073	R 7	..... .29	.261	.248
686356CM	22-28-4083	R 8	..... .30	.269	.256
686364CM	22-28-4093	R 9	..... .37	.34	.323
686372CM	22-28-4103	R 10	..... .37	.34	.323
686381CM	22-28-4363	R 36	..... 1.31	1.03	.98

### Right Angle Single Row Breakaway Headers (Tin)

(A) .309"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
685960CM	22-28-6020	R 2	..... \$ .20	\$ .143	\$ .135
685978CM	22-28-6030	R 3	..... .22	.207	.196
685986CM	22-28-6040	R 4	..... .35	.338	.325
685994CM	22-28-6050	R 5	..... .38	.37	.354
686006CM	22-28-6060	R 6	..... .47	.453	.434
686014CM	22-28-6070	R 7	..... .54	.474	.461
686022CM	22-28-6080	R 8	..... .66	.64	.61
686031CM	22-28-6090	R 9	..... .50	.487	.466
686049CM	22-28-6100	R 10	..... .75	.72	.69
686057CM	22-28-6110	R 11	..... .55	.535	.512
686065CM	22-28-6120	R 12	..... .57	.521	.51

### Right Angle Single Row Breakaway Headers (Tin)

(A) .348"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686401CM	22-28-8020	R 2	..... \$ .23	\$ .198	\$ .188
686410CM	22-28-8030	R 3	..... .20	.182	.173
686428CM	22-28-8040	R 4	..... .31	.277	.263
686436CM	22-28-8050	R 5	..... .34	.30	.285
686444CM	22-28-8060	R 6	..... .34	.30	.285
686452CM	22-28-8070	R 7	..... .42	.379	.36
686461CM	22-28-8080	R 8	..... .42	.379	.36
686479CM	22-28-8090	R 9	..... .45	.348	.33
686487CM	22-28-8100	R 10	..... .38	.356	.338
686495CM	22-28-8360	R 36	..... 1.29	1.02	.97

### Right Angle Single Row Breakaway Headers (Gold)

(A) .309"; (B) .100"; (C) .118"

Part No.	Cross Ref. No.	Pos.	1	10	25
686073CM	22-28-6022	R 2	..... \$ .31	\$ .297	\$ .285
686081CM	22-28-6032	R 3	..... .51	.435	.413
686090CM	22-28-6042	R 4	..... .51	.49	.466
686102CM	22-28-6052	R 5	..... .82	.73	.70
686111CM	22-28-6062	R 6	..... .74	.72	.69
686129CM	22-28-6072	R 7	..... 1.15	1.11	1.03
686137CM	22-28-6082	R 8	..... .99	.91	.90
686145CM	22-28-6092	R 9	..... 1.07	1.00	.92
686153CM	22-28-6102	R 10	..... 1.24	1.06	1.03
686161CM	22-28-6112	R 11	..... 1.12	1.02	.97
686170CM	22-28-6122	R 12	..... 1.27	1.03	1.00



Right Angle

Straight

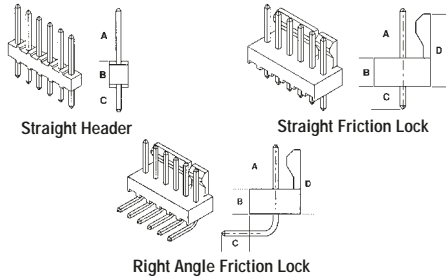
### Straight Friction Lock

Part No.	Product No.	Positions	1	10	100
613931CM	640456-2	2	..... *	\$ .043	\$ .04
613940CM	640456-3	3	..... *	.079	.071
613958CM	640456-4	4	..... *	.105	.095
613966CM	640456-5	5	..... *	.115	.102
613974CM	640456-6	6	..... *	.131	.115
613982CM	640456-7♣	7	..... *	.12	.11
613991CM	640456-8♣	8	..... .20	.174	.154



## KK® Series .100" (2.54mm) Male Headers

- Voltage: 250V • Current: 4.0A • Contact resistance: 20mΩ max. • Housing: nylon, UL94V-0
- Dielectric withstanding voltage: 1500V • Insulation resistance: 50,000MΩ min.
- Contact: brass, 0 – 6.4mm (0.25") square • Durability: tin – 25 cycles max.; gold – 100 cycles max.



### Straight Headers (Tin)

- Dimensions: (A) .295"; (B) .130"; (C) .135"

Part No.	Product No.	Positions	1	10	100
232178CM	22-03-2021	2	.....\$ .20	\$ .10	\$ .09
232186CM	22-03-2031	3	......22	.16	.14
232194CM	22-03-2041	4	......23	.21	.19
232207CM	22-03-2051	5	......29	.26	.24
232215CM	22-03-2061	6	......34	.31	.27
232223CM	22-03-2081	8	......40	.37	.33
232231CM	22-03-2101	10	......46	.42	.37
232240CM	22-03-2121	12	......56	.51	.45

### Straight Friction Lock Headers (Tin)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
232266CM	22-23-2021	2	.....\$ .29	\$ .23	\$ .15
232274CM	22-23-2031	3	......35	.30	.19
232282CM	22-23-2041	4	......42	.36	.23
232291CM	22-23-2051	5	......49	.42	.27
232303CM	22-23-2061	6	......55	.48	.31
232311CM	22-23-2071	7	......63	.55	.36
232320CM	22-23-2081	8	......72	.63	.41
232338CM	22-23-2091	9	......76	.66	.37
232346CM	22-23-2101	10	......80	.70	.46
232354CM	22-23-2121	12	......95	.83	.55



## KK® Series .100" (2.54mm) Female Housing & Crimp Contacts

- Voltage: 250V
- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Contact resistance: 20mΩ max.
- Dielectric withstanding volt.: 1500VAC
- Insulation resistance: 50,000MΩ
- Housing Material:
  - Contact insertion force: 1.5 lbs. max.
  - Contact retention to housing: 8 lbs. min.
  - Housing: nylon, UL94V-0
  - Operating temperature: 0 to 75°C



### Housing with Locking Ramp & Polarizing Ribs

Part No.	Product No.	Positions	1	10	100
234798CM	22-01-3027	2	.....\$ .29	\$ .17	\$ .10
234801CM	22-01-3037	3	......29	.21	.13
234819CM	22-01-3047	4	......31	.27	.17
234827CM	22-01-3057	5	......36	.31	.20
234835CM	22-01-3067	6	......42	.36	.23
234843CM	22-01-3077	7	......47	.41	.26
234851CM	22-01-3087	8	......54	.47	.30
234860CM	22-01-3097	9	......58	.50	.32
234878CM	22-01-3107	10	......65	.55	.35
234886CM	22-01-3127	12	......76	.66	.42

### Right Angle Friction Lock Headers (Tin)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233437CM	22-05-3021	2	.....\$ .42	\$ .36	\$ .22
233445CM	22-05-3031	3	......56	.49	.30
233453CM	22-05-3041	4	......71	.61	.39
233461CM	22-05-3051	5	......77	.67	.43
233470CM	22-05-3061	6	......85	.74	.48
233488CM	22-05-3071	7	......99	.79	.56
233496CM	22-05-3081	8	.....1.03	.83	.58
233509CM	22-05-3101	10	.....1.08	.94	.61
233517CM	22-05-3121	12	.....1.19	.99	.69

### Straight Friction Lock Headers (Gold)

- Dimensions: (A) .295"; (B) .125"; (C) .140"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233584CM	22-11-2022	2	.....\$ .54	\$ .46	\$ .29
233592CM	22-11-2032	3	......85	.74	.47
233605CM	22-11-2042	4	......87	.76	.49
233613CM	22-11-2052	5	.....1.22	1.06	.69
233621CM	22-11-2062	6	.....1.34	1.17	.76
233630CM	22-11-2072	7	.....1.55	1.36	.89
233648CM	22-11-2082	8	.....1.65	1.42	.93
233656CM	22-11-2102	10	.....2.05	1.77	1.16
233664CM	22-11-2122	12	.....2.39	2.12	1.39

### Right Angle Friction Lock Headers (Gold)

- Dimensions: (A) .260"; (B) .125"; (C) .141"; (D) .322"

Part No.	Product No.	Positions	1	10	100
233672CM	22-12-2024	2	.....\$ .89	\$ .77	\$ .48
233681CM	22-12-2034	3	.....1.15	.99	.63
233699CM	22-12-2044	4	.....1.36	1.19	.76
233701CM	22-12-2054	5	.....1.49	1.31	.84
233710CM	22-12-2064	6	.....1.65	1.43	.92
233728CM	22-12-2084	8	.....1.85	1.51	1.05

### Housing with Locking Ramp

Part No.	Product No.	Positions	1	10	100
234704CM	22-01-2027	2	.....\$ .29	\$ .15	\$ .09
234712CM	22-01-2037	3	......29	.20	.12
234721CM	22-01-2047	4	......29	.24	.15
234739CM	22-01-2057	5	......33	.28	.17
234747CM	22-01-2067	6	......36	.32	.20
234755CM	22-01-2087	8	......47	.41	.26
234763CM	22-01-2097	9	......51	.44	.28
234771CM	22-01-2107	10	......57	.49	.31
234780CM	22-01-2127	12	......67	.58	.37

### Crimp Contacts

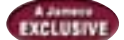
- Accommodates 22 to 30 AWG
- Material: brass or phosphor bronze
- Insulation range: 0.062" (1.58mm) diameter max.
- Prepackaged: order in increments of 10, 100 or 1000
- 234923CM: Brass with tin plating
- 234931CM: Brass with 15µ" select gold plating

Part No.	Product No.	10	100	1000
234923CM	08-50-0114	.....\$ .065	\$ .048	\$ .029
234931CM	08-55-0102	......22	.17	.11

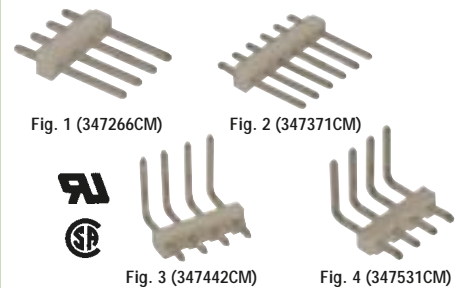


## JAMECO ValuePro .100" (2.54mm) IDC Headers

- Housing: UL94V-0 rated, polyester, natural color



### Narrow Flat Headers



- Posts: copper alloy, tin plated
- Base dimensions: 0.092"W x 0.1"H

### Straight Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347240CM	644456-2	1	2	.....\$ .20	\$ .136	\$ .099
347258CM	644456-3	1	3	......21	.168	.123
347266CM	644456-4	1	4	......22	.209	.163
347274CM	644456-5	1	5	......28	.266	.204
347282CM	644456-6	1	6	......30	.246	.223
347291CM	644456-7	1	7	......30	.269	.192
347303CM	644456-8	1	8	......41	.328	.297
347311CM	644456-9	1	9	......45	.368	.334
347320CM	1-644456-0	1	10	......51	.409	.371

### Straight Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347338CM	644695-2	2	2	.....\$ .20	\$ .112	\$ .109
347346CM	644695-3	2	3	......21	.12	.117
347354CM	644695-4	2	4	......22	.183	.179
347362CM	644695-5	2	5	......23	.22	.192
347371CM	644695-6	2	6	......25	.248	.245
347389CM	644695-7	2	7	......29	.288	.286
347397CM	644695-8	2	8	......33	.328	.326
347400CM	644695-9	2	9	......37	.368	.367
347418CM	1-644695-0	2	10	......41	.409	.408

### Right Angle Post – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347426CM	644457-2	3	2	.....\$ .20	\$ .116	\$ .085
347434CM	644457-3	3	3	......21	.151	.111
347442CM	644457-4	3	4	......23	.229	.17
347451CM	644457-5	3	5	......20	.189	.176
347469CM	644457-6	3	6	......31	.30	.232
347477CM	644457-7	3	7	......99	.98	.748
347485CM	644457-8	3	8	......42	.40	.309
347493CM	644457-9	3	9	......48	.475	.348
347506CM	1-644457-0	3	10	......53	.528	.386

### Right Angle Post w/ Retentive Leg – Tin Plated

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
347514CM	644694-2	4	2	.....\$ .20	\$ .102	\$ .081
347522CM	644694-3	4	3	......21	.125	.122
347531CM	644694-4	4	4	......22	.172	.171
347549CM	644694-5	4	5	......24	.238	.234
347557CM	644694-6	4	6	......26	.259	.255
347565CM	644694-7	4	7	......30	.299	.297
347573CM	644694-8	4	8	......34	.339	.216
347581CM	644694-9	4	9	......39	.388	.382
347590CM	1-644694-0	4	10	......43	.428	.425

To Find Additional KK .100" Products In This Series, Visit [www.Jameco.com/Prod/MolexKK100](http://www.Jameco.com/Prod/MolexKK100)

**JAMECO ValuePro**

## .100" (2.54mm) IDC Headers (Continued)

- Housing: UL94V-0 rated, polyester, natural color
- Friction Lock Headers
- Posts: copper alloy, gold over nickel plated



**Straight Post – Gold Plated**

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348058CM	641215-2	2	2	.....\$ .37	.....\$ .304	.....\$ .276
348066CM	641215-3	3	3	.....\$ .42	.....\$ .387	.....\$ .368
348074CM	641215-4	4	4	.....\$ .52	.....\$ .474	.....\$ .456
348082CM	641215-5	5	5	.....\$ .91	.....\$ .74	.....\$ .671
348091CM	641215-6	6	6	.....\$ .74	.....\$ .672	.....\$ .648
348103CM	641215-7	7	7	.....\$ .82	.....\$ .743	.....\$ .712
348111CM	641215-8	8	8	.....\$ .50	.....\$ .495	.....\$ .492
348120CM	641215-9	9	9	.....\$ 1.34	.....\$ 1.088	.....\$ .987
348138CM	1-641215-0	10	10	.....\$ 1.05	.....\$ .956	.....\$ .92

**Right Angle Post – Gold Plated**

Part No.	Cross Ref.	Fig.	Pos.	1	10	100
348234CM	641216-2	2	2	.....\$ .56	.....\$ .559	.....\$ .416
348242CM	641216-3	2	3	.....\$ .78	.....\$ .779	.....\$ .573
348251CM	641216-4	2	4	.....\$ .95	.....\$ .948	.....\$ .694
348269CM	641216-5	2	5	.....\$ .82	.....\$ .743	.....\$ .712
348277CM	641216-6	2	6	.....\$ 1.25	.....\$ 1.241	.....\$ .908
348285CM	641216-7	2	7	.....\$ 1.29	.....\$ 1.28	.....\$ .947
348293CM	641216-8	2	8	.....\$ .65	.....\$ .62	.....\$ .58
348306CM	641216-9	2	9	.....\$ 1.45	.....\$ 1.43	.....\$ 1.046
348314CM	1-641216-0	2	10	.....\$ 1.15	.....\$ 1.043	.....\$ .992

**AMP**

## AMPMODU™ .100" (2.54mm) Receptacles

- Double Row, .100" Center Line**
- Center polarized
  - Wire to board
  - Black thermoplastic, flame retardant

Part No.	Product No.	Positions	1	10	25
496309CM	102387-1	10	.....\$ 1.34	.....\$ 1.28	.....\$ 1.22
496165CM	102387-3	16	.....\$ 1.99	.....\$ 1.81	.....\$ 1.70
496173CM	102387-4	20	.....\$ 2.09	.....\$ 1.90	.....\$ 1.71
496181CM	102387-6	26	.....\$ 2.45	.....\$ 2.28	.....\$ 2.13
496190CM	102387-8	34	.....\$ 3.15	.....\$ 2.88	.....\$ 2.70
496202CM	102387-9	40	.....\$ 3.19	.....\$ 2.91	.....\$ 2.78

- Single Row, .100" Center Line**
- Non-polarized
  - Wire to board
  - Black thermoplastic, flame retardant

Part No.	Product No.	Positions	1	10	100
526871CM	87499-3	2	.....\$ .99	.....\$ .94	.....\$ .89
526889CM	87499-5	3	.....\$ .64	.....\$ .61	.....\$ .588
526897CM	87499-7	4	.....\$ .56	.....\$ .534	.....\$ .521
526900CM	57499-9	5	.....\$ .47	.....\$ .427	.....\$ .304
526854CM	87456-6	10	.....\$ 1.25	.....\$ 1.17	.....\$ 1.09

**AMP**

## Pistol Hand Grip Tool

- For use with AMPMODU IDC Connectors
- Manual tool

Part No.	Product No.	1	10
526643CM	465644-1	.....\$ 12.39	.....\$ 11.76

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

**JAMECO ValuePro**

## .100" (2.54mm) IDC Connectors

**A Jameco EXCLUSIVE**

- Voltage rating: 250VAC
- Current rating: 4A max.
- Dielectric withstanding voltage: 750VAC/1 min.
- Low-level resistance: 5mΩ max. initial
- Insulation resistance: 5000MΩ min. initial



Closed-End Style

Without Polarizing Tabs

Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
345631CM	640440-5	5	22	Red ...	\$.23	\$.122	\$.115
345640CM	640440-6	6	22	Red .....	.24	.141	.135
345658CM	640440-7	7	22	Red .....	.26	.168	.155
345666CM	640440-8	8	22	Red .....	.28	.179	.168
345674CM	640440-9	9	22	Red .....	.29	.19	.17
345682CM	1-640440-0	10	22	Red .....	.35	.264	.248
345738CM	640441-6	6	24	White ..	.24	.141	.133
345746CM	640441-7	7	24	White ..	.26	.192	.184
345754CM	640441-8	8	24	White ..	.27	.216	.199
345762CM	640441-9	9	24	White ...	.32	.199	.189
345771CM	1-640441-0	10	24	White ...	.35	.264	.248

With Polarizing Tabs


Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
345956CM	643813-2	2	22	Red ...	\$.20	\$.11	\$.10
345973CM	643813-3	3	22	Red .....	.21	.12	.11
345981CM	643813-4	4	22	Red .....	.22	.123	.104

Feed-Thru Style

Without Polarizing Tabs

Part No.	Cross Ref.	Pos.	AWG	Color	1	10	100
346327CM	640620-2	2	22	Red ...	\$.20	\$.082	\$.081
346335CM	640620-3	3	22	Red .....	.21	.089	.088
346343CM	640620-4	4	22	Red .....	.22	.096	.095
346351CM	640620-5	5	22	Red .....	.23	.122	.104
346360CM	640620-6	6	22	Red .....	.24	.131	.13
346378CM	640620-7	7	22	Red .....	.26	.152	.144
346386CM	640620-8	8	22	Red .....	.27	.174	.152
346394CM	640620-9	9	22	Red .....	.28	.199	.179
346407CM	1-640620-0	10	22	Red .....	.29	.218	.20
346423CM	640621-3	3	24	White ...	.21	.087	.083
346431CM	640621-4	4	24	White ...	.22	.096	.092
346440CM	640621-5	5	24	White ...	.23	.102	.099
346458CM	640621-6	6	24	White ...	.24	.131	.128
346466CM	640621-7	7	24	White ...	.26	.152	.148
346474CM	640621-8	8	24	White ...	.27	.174	.168
346482CM	640621-9	9	24	White ...	.28	.199	.179
346491CM	1-640621-0	10	24	White ...	.29	.218	.217

With Polarizing Tabs														
Part No.		Cross Ref.		Pos.	AWG	Color	1	10	100					
346685CM	644540-2	⊕	2	22	Red	...	\$ .20	\$ .104	\$ .095					
346693CM	644540-3	⊕	3	22	Red	.....	.21	.116	.106					
346706CM	644540-4	⊕	4	22	Red	.....	.22	.123	.112					
346714CM	644540-5	⊕	5	22	Red	.....	.22	.157	.142					
346722CM	644540-6	⊕	6	22	Red	.....	.24	.168	.153					
346731CM	644540-7	⊕	7	22	Red	.....	.26	.243	.178					
346749CM	644540-8	⊕	8	22	Red	.....	.28	.25	.203					
346765CM	1-644540-0	⊕	10	22	Red	.....	.35	.305	.255					
346773CM	644563-2	⊕	2	24	White	.....	.20	.101	.092					
346781CM	644563-3	⊕	3	24	White	.....	.21	.112	.101					
346790CM	644563-4	⊕	4	24	White	.....	.22	.123	.112					
346811CM	644563-6	⊕	6	24	White	.....	.24	.168	.153					
346829CM	644563-7	⊕	7	24	White	.....	.26	.196	.178					
346837CM	644563-8	⊕	8	24	White	.....	.28	.223	.203					
346853CM	1-644563-0	⊕	10	24	White	.....	.35	.289	.255					

<b>AMP</b> T-Handle Tool				
• For .100" (2.54mm) IDC connectors				
Part No.	Product No.	Description	Price	
365974CM	59803-1	.100" hand tool	\$20.89	

.100" (2.54mm) Strain Relief Covers													
Closed-End Style							Feed-Thru Style						
Part No.	Cross Ref.	Fig.	Pos.	1	10	100	Part No.	Cross Ref.	Fig.	Pos.	1	10	100
326019CM	643075-2	2	2	.....\$ .24	.....\$ .142	.....\$ .139	326051CM	643077-1	1	2	.....\$ .25	.....\$ .23	.....\$ .199
326027CM	643075-3	3	3	.....\$ .34	.....\$ .237	.....\$ .152	326123CM	643077-4	4	4	.....\$ .31	.....\$ .274	.....\$ .248
326035CM	643075-4	4	4	.....\$ .25	.....\$ .153	.....\$ .144	326131CM	643077-5	5	5	.....\$ .39	.....\$ .351	.....\$ .319
326043CM	643075-5	5	5	.....\$ .25	.....\$ .198	.....\$ .159	326140CM	643077-6	6	6	.....\$ .43	.....\$ .373	.....\$ .338
326051CM	643075-6	6	6	.....\$ .20	.....\$ .15	.....\$ .104	326158CM	643077-7	7	7	.....\$ .45	.....\$ .398	.....\$ .36
326060CM	643075-7	7	7	.....\$ .59	.....\$ .521	.....\$ .472	326166CM	643077-8	8	8	.....\$ .50	.....\$ .442	.....\$ .40
326078CM	643075-8	8	8	.....\$ .49	.....\$ .299	.....\$ .199	326174CM	643077-9	9	9	.....\$ .57	.....\$ .514	.....\$ .496
326086CM	643075-9	9	9	.....\$ .57	.....\$ .521	.....\$ .448	326182CM	1-643077-0	10	10	.....\$ .59	.....\$ .548	.....\$ .518
326094CM	1-643075-0	10	10	.....\$ .59	.....\$ .331	.....\$ .329							





## .118" (3.0mm) Single and Dual Row Micro-Fit Connectors

### Molex Micro-Fit 3.0™ Series Value Equivalents



338634CM  
(Fig. 1)



338271CM  
(Fig. 2)



338280CM  
(Fig. 3)



337691CM  
(Fig. 4)



337623CM  
(Fig. 5)



337631CM  
(Fig. 6)



338491CM  
(Fig. 7)



338044CM  
(Fig. 8)



338079CM  
(Fig. 9)

### Single Row Crimp Housing

- Positive latching to mating headers or plugs
- Fully isolated contacts
- Integral pull tabs for ease in unmating
- Black
- Receptacle mates with 43640 and 43650 series

### Receptacles (Fig. 1)

Part No.	Cross Ref. No.	Positions	1	10	100
338351CM	43645-0200	2	.....\$ .20	.....\$ .166	.....\$ .152
338360CM	43645-0300	3	.....\$ .20	.....\$ .174	.....\$ .168
338378CM	43645-0400	4	.....\$ .21	.....\$ .19	.....\$ .184
338634CM	43645-0500	5	.....\$ .23	.....\$ .213	.....\$ .20
338386CM	43645-0600	6	.....\$ .26	.....\$ .229	.....\$ .216

### Plugs – Panel Mount (Fig. 2)

Part No.	Cross Ref. No.	Positions	1	10	100
338255CM	43640-0200	2	.....\$ .20	.....\$ .166	.....\$ .152
338271CM	43640-0300	3	.....\$ .23	.....\$ .205	.....\$ .20
338298CM	43640-0400	4	.....\$ .32	.....\$ .307	.....\$ .276
338319CM	43640-0500	5	.....\$ .35	.....\$ .33	.....\$ .303
338335CM	43640-0600	6	.....\$ .38	.....\$ .368	.....\$ .323

### Plugs – Free Hanging (Fig. 3)

Part No.	Cross Ref. No.	Positions	1	10	100
338263CM	43640-0201	2	.....\$ .20	.....\$ .166	.....\$ .152
338280CM	43640-0301	3	.....\$ .20	.....\$ .174	.....\$ .168
338301CM	43640-0401	4	.....\$ .21	.....\$ .19	.....\$ .184
338327CM	43640-0501	5	.....\$ .50	.....\$ .449	.....\$ .303
338343CM	43640-0601	6	.....\$ .34	.....\$ .332	.....\$ .248

### Double Row Crimp Housing

- Fully isolated contacts
- Housing: UL94V-0
- Voltage/current rating: 250V @ 5.0A (max.)
- Mates with 43020 and 43045 series
- Contact resistance: 10mΩ (max.)
- Contacts: tin or 30µ" gold plating over phosphor bronze

### Receptacles (Fig. 4)

Part No.	Cross Ref. No.	Positions	1	10	100
337666CM	43025-0200	2	.....\$ .20	.....\$ .174	.....\$ .144
337674CM	43025-0400	4	.....\$ .23	.....\$ .213	.....\$ .192
337682CM	43025-0600	6	.....\$ .28	.....\$ .253	.....\$ .232
337691CM	43025-0800	8	.....\$ .33	.....\$ .292	.....\$ .264
337703CM	43025-1000	10	.....\$ .36	.....\$ .332	.....\$ .272
337711CM	43025-1200	12	.....\$ .45	.....\$ .403	.....\$ .368
337842CM	43025-1600	16	.....\$ .52	.....\$ .443	.....\$ .384
337851CM	43025-1800	18	.....\$ .71	.....\$ .648	.....\$ .544
337869CM	43025-2000	20	.....\$ .95	.....\$ .856	.....\$ .705
337877CM	43025-2400	24	.....\$ .82	.....\$ .784	.....\$ .68

### Plugs – Panel Mount (Fig. 5)

Part No.	Cross Ref. No.	Positions	1	10	100
337586CM	43020-0200	2	.....\$ .21	.....\$ .182	.....\$ .152
337594CM	43020-0400	4	.....\$ .23	.....\$ .213	.....\$ .184
337607CM	43020-0600	6	.....\$ .29	.....\$ .261	.....\$ .24
337623CM	43020-0800	8	.....\$ .35	.....\$ .261	.....\$ .224
337640CM	43020-1000	10	.....\$ .40	.....\$ .356	.....\$ .328
337826CM	43020-1200	12	.....\$ .45	.....\$ .403	.....\$ .368
337834CM	43025-1400	14	.....\$ .49	.....\$ .442	.....\$ .36

### Double Row Crimp Housing (Continued)

#### Plugs – Free Hanging (Fig. 6)

Part No.	Cross Ref. No.	Positions	1	10	100
337800CM	43020-0201	2	.....\$ .21	.....\$ .182	.....\$ .168
337818CM	43020-0401	4	.....\$ .29	.....\$ .253	.....\$ .194
337615CM	43020-0601	6	.....\$ .31	.....\$ .237	.....\$ .20
337631CM	43020-0801	8	.....\$ .40	.....\$ .363	.....\$ .304
337658CM	43020-1001	10	.....\$ .46	.....\$ .419	.....\$ .336

### Single Row PCB Headers

- Snap-in peg locks header to PCB for retention
- Surface mount compatible
- Fully polarized to mating receptacle
- Mates with 43645 series
- Black
- Wire to board

#### Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 7)

Part No.	Cross Ref. No.	Positions	1	10	100
338394CM	43650-0200	2	.....\$ .39	.....\$ .332	.....\$ .296
338431CM	43650-0300	3	.....\$ .41	.....\$ .379	.....\$ .344
338466CM	43650-0400	4	.....\$ .43	.....\$ .395	.....\$ .36
338491CM	43650-0500	5	.....\$ .115	.....\$ 1.08	.....\$ .838
338520CM	43650-0600	6	.....\$ .99	.....\$ .80	.....\$ .729

#### Right Angle w/ Snap-In Plastic Peg – 15µ" gold (Fig. 7)

Part No.	Cross Ref. No.	Positions	1	10	100
338407CM	43650-0201	2	.....\$ .61	.....\$ .561	.....\$ .512
338642CM	43650-0301	3	.....\$ 1.09	.....\$ 1.03	.....\$ .791
338651CM	43650-0401	4	.....\$ 1.25	.....\$ 1.17	.....\$ .911

### Double Row PCB Headers

- Surface mount compatible with PCB polarizing pegs
- Fully polarized to mating receptacle
- Black

#### Right Angle w/ Snap-In Plastic Peg – Tin (Fig. 8)

Part No.	Cross Ref. No.	Positions	1	10	100
337885CM	43045-0200	2	.....\$ .35	.....\$ .316	.....\$ .264
337965CM	43045-0400	4	.....\$ .51	.....\$ .443	.....\$ .40
338044CM	43045-0600	6	.....\$ .55	.....\$ .514	.....\$ .456
338554CM	43045-0800	8	.....\$ .70	.....\$ .616	.....\$ .56
338562CM	43045-1000	10	.....\$ .78	.....\$ .719	.....\$ .656
338212CM	43045-1200	12	.....\$ .89	.....\$ .84	.....\$ .77
338571CM	43045-1400	14	.....\$ 1.09	.....\$ .99	.....\$ .912
338597CM	43045-1600	16	.....\$ 1.25	.....\$ 1.15	.....\$ 1.04
338600CM	43045-2000	20	.....\$ 1.39	.....\$ 1.30	.....\$ 1.20

#### Right Angle w/ Snap-In Plastic Peg – Gold (Fig. 8)

Part No.	Cross Ref. No.	Positions	1	10	100
337893CM	43045-0202	2	.....\$ .51	.....\$ .458	.....\$ .416
337973CM	43045-0402	4	.....\$ .67	.....\$ .632	.....\$ .568
338052CM	43045-0602	6	.....\$ .99	.....\$ .88	.....\$ .794
338116CM	43045-0802	8	.....\$ 1.05	.....\$ 1.00	.....\$ .899
338167CM	43045-1002	10	.....\$ 1.25	.....\$ 1.14	.....\$ 1.04
338221CM	43045-1202	12	.....\$ 1.39	.....\$ 1.32	.....\$ 1.19
338589CM	43045-1402	14	.....\$ 1.59	.....\$ 1.46	.....\$ 1.36
338618CM	43045-2202	22	.....\$ 2.39	.....\$ 2.17	.....\$ 2.08
338626CM	43045-2402	24	.....\$ 6.09	.....\$ 5.84	.....\$ 4.47

### Double Row PCB Headers (Continued)

#### Vertical Thru Hole – Tin (Fig. 9)

Part No.	Cross Ref. No.	Positions	1	10	100
337922CM	43045-0212	2	.....\$ .59	.....\$ .561	.....\$ .408
338001CM	43045-0412	4	.....\$ .39	.....\$ .332	.....\$ .304
338079CM	43045-0612	6	.....\$ .47	.....\$ .419	.....\$ .376
338132CM	43045-0812	8	.....\$ .70	.....\$ .632	.....\$ .576
338175CM	43045-1012	10	.....\$ .65	.....\$ .593	.....\$ .56
338239CM	43045-1212	12	.....\$ .82	.....\$ .735	.....\$ .664

#### Vertical Thru Hole – Gold (Fig. 9)

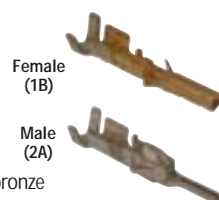
Part No.	Cross Ref. No.	Positions	1	10	100
337931CM	43045-0214	2	.....\$ .49	.....\$ .451	.....\$ .408
338010CM	43045-0414	4	.....\$ .59	.....\$ .514	.....\$ .48
338087CM	43045-0614	6	.....\$ .79	.....\$ .72	.....\$ .656
338141CM	43045-0814	8	.....\$ .99	.....\$ .888	.....\$ .81
338183CM	43045-1014	10	.....\$ 2.25	.....\$ 2.05	.....\$ 1.75
338247CM	43045-1214	12	.....\$ 1.39	.....\$ 1.30	.....\$ 1.22

### Female & Male Contacts

Type\*:

- 1: female
- 2: male

- A: tin plating over phosphor bronze  
B: 30µ" select gold over nickel over phosphor bronze



\* Prepackaged: order in increments of 10 or 100

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
337720CM	43030-0007	20-24	1A .... *	.....\$ .094	.....\$ .072	
337738CM	43030-0009	20-24	1B .... *	.....\$ .20	.....\$ .16	
337746CM	43030-0010	26-30	1A .... *	.....\$ .096	.....\$ .081	
337754CM	43030-0012	26-30	1B .... *	.....\$ .20	.....\$ .174	.....\$ .16
337762CM	43031-0007	20-24	2A .... *	.....\$ .087	.....\$ .064	
337771CM	43031-0009	20-24	2B .... *	.....\$ .135	.....\$ .104	
337789CM	43031-0010	26-30	2A .... *	.....\$ .085	.....\$ .072	
337797CM	43031-0012	26-30	2B .... *	.....\$ .134	.....\$ .12	

### Extraction Tool

- Length: 3.0"

Part No.	Cross Ref. No.	1	5
338669CM	11-03-0043	.....\$ 14.99	.....\$ 11.49

### Crimp Tool

- Length: 8.25"

Part No.	Cross Ref. No.	1	5	10
338677CM	HT-225D	.....\$ 24.99	.....\$ 22.99	.....\$ 19.99

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[NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

## .156" (3.96mm) IDC Connectors AMP MTA-156 Series Value Equivalents



397474CM  
(Fig. 1)



397749CM  
(Fig. 2)



397837CM  
(Fig. 3)



398101CM  
(Fig. 4)

### Closed-End Style

With Locking Ramp and w/o Polarizing Tabs (Fig. 1)

• Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397431CM	640426-2	2	\$.21	\$.103	\$.08
397440CM	640426-3	3	.22	.149	.139
397458CM	640426-4	4	.23	.158	.142
397466CM	640426-5	5	.24	.185	.145
397474CM	640426-6	6	.25	.199	.164

• Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397520CM	640427-2	2	\$.21	\$.117	\$.105
397538CM	640427-3	3	.22	.139	.119
397546CM	640427-4	4	.23	.166	.129
397554CM	640427-5	5	.24	.185	.159
397562CM	640427-6	6	.25	.199	.169

With Locking Ramp and Polarizing Tabs (Fig. 2)

• Orange • AWG: 18

Part No.	Cross Ref. No.	Positions	1	10	100
397618CM	643817-2	2	\$.21	\$.126	\$.119
397626CM	643817-3	3	.22	.138	.133
397634CM	643817-4	4	.23	.126	.119
397642CM	643817-5	5	.24	.149	.139
397651CM	643817-6	6	.25	.159	.149

• Yellow • AWG: 20

Part No.	Cross Ref. No.	Positions	1	10	100
397706CM	643818-2	2	\$.21	\$.119	\$.105
397714CM	643818-3	3	.22	.179	.138
397722CM	643818-4	4	.23	.189	.169
397731CM	643818-5	5	.24	.199	.189
397749CM	643818-6	6	.25	.205	.195

Strain Relief Covers for Closed-End Style

Part No.	Cross Ref. No.	Positions	1	10	100
398696CM	643067-2	2	\$.20	\$.16	\$.14
398709CM	643067-3	3	.31	.235	.161
398717CM	643067-4	4	.33	.256	.17
398725CM	643067-5	5	.67	.616	.508
398733CM	643067-6	6	.34	.261	.192

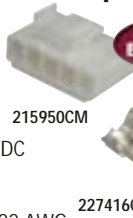
## .156" Center Housing Connectors & Crimp Contact

- Mating connectors for Mean Well LPS and LPP series power supplies (pgs 219-220)
- Current rating: 10A AC/DC
- Voltage rating: 250V AC/DC

227416CM:

- Material: brass
- Finish: tin-plated
- 18-22 AWG

Part No.	Description	1	10	100	1000
215950CM	5 pos. housing	\$.35	\$.32	\$.28	\$.26
215976CM	8 pos. housing	.39	.35	.32	.28
215968CM	12 pos. housing	.49	.44	.39	.35
227416CM	Crimp contact	.32	.29	.26	.22



227416CM

## .156" (3.9mm) Center Straight-Friction Lock Headers

- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin - brass/tin-plated
- Base: nylon 66, UL94V-2

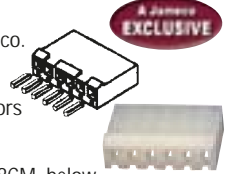
Part No.	Cross Ref. No.	Positions	1	10	100	1000
104791CM	LMH4	4	\$.22	\$.11	\$.09	\$.07
104803CM	LMH5	5	.23	.13	.11	.09
104811CM	LMH6	6	.25	.15	.12	.10
104846CM	LMH10	10	.27	.198	.184	.138

### Other Manufacturers

235491CM	8673-12-5	12	\$.35	\$.32	\$.25	\$.23
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## .156" (3.9mm) Center Housing Connectors

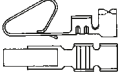
- Common to many power supplies carried by Jameco. Some power supplies (pgs 215-220) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use w/ crimp pins, 78318CM, below



Part No.	Cross Ref. No.	Positions	1	10	100	1000
176743CM	LCH2	2	\$.20	\$.07	\$.05	\$.04
104432CM	LCH3	3	.22	.19	.12	.11
104715CM	LCH4	4	.24	.22	.15	.12
104723CM	LCH5	5	.26	.24	.17	.13
104731CM	LCH6	6	.33	.30	.24	.15
104766CM	LCH10	10	.39	.32	.28	.23

## .156" (3.9mm) Center Crimp Pins

- Pin wire gauge: 18-24 AWG
- Material: brass/tin plated
- Use with .156 housings (above)



Prepackaged: order in increments of 10, 100, 1000

Part No.	Mfr.	Cross Ref. No.	10	100	1000
78318CM	JS-5001-T		\$.11	\$.08	\$.07

## .156" Female Crimp Pins

- Pin wire gauge: 18-22 AWG
- Material: tin-plated brass
- Use 99442CM crimping tool, pg 299



Prepackaged: order in increments of 10, 100 or 1000

Part No.	Mfr.	Cross Ref. No.	10	100	1000
154093CM	LRPN		\$.061	\$.05	\$.035

## AMP T-Handle Tool

- For .156" IDC connectors



Part No.	Product No.	Description	Price
404540CM	59804-1	0.156" hand tool	\$20.89

## Making Great Connectors Even Better!

Do you know how to make these premium-quality connectors even better? Too often, prototypers use pliers or an incorrect crimper to fasten wire to pin. When the plier tips are too wide, pin shapes become distorted. Even a slight distortion can prevent the pin from seating in the connector properly, which leads to poor connections. An improper crimper can either under-crimp, leading to future wire separation; or over-crimp, leading to fatigued pins that eventually break apart.

Be sure you use the right crimper for the job. For instance, be sure to use P/N 99442CM on page 299 for the crimp pins on this page. Then you can be assured the quality of your work will be as great as the quality of the connectors.

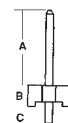


**Practical Practices**  
 Money Saving Tips for the Engineer

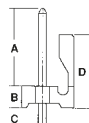
## AMP

### .156" (3.96mm) Male Headers

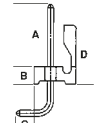
- Voltage and current rating: 600VAC @ 7.0A
- Contact material/plating: copper alloy/tin
- UL94V-0 flammability rating
- .045" square posts
- Insulator material: polyester
- Solder tail material/plating: copper alloy/tin



Straight Header



Straight Friction Lock



Right Angle Friction Lock

#### Straight Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
231546CM	640445-2	2	.....*	\$.07	\$.06
231554CM	640445-3	3	.....*	\$.075	\$.06
231562CM	640445-4	4	.....*	\$.10	\$.08
231571CM	640445-5	5	.....*	\$.14	\$.10
231589CM	640445-6	6	.....*	\$.17	\$.13
231597CM	640445-7	7	.....*	\$.18	\$.15
231600CM	640445-8	8	.....*	\$.23	\$.17
231626CM	1-640445-0	10	.....	\$.31	\$.20

#### Right Angle Friction Lock Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"; (D) .425"

Part No.	Product No.	Positions	1	10	100
232362CM	640389-2	2	.....	\$.29	\$.26
232371CM	640389-3	3	.....	\$.44	\$.39
232389CM	640389-4	4	.....	\$.59	\$.52
232397CM	640389-5	5	.....	\$.74	\$.65
232400CM	640389-6	6	.....	\$.80	\$.71
232418CM	640389-7	7	.....	\$.93	\$.83
232426CM	640389-8	8	.....	1.06	\$.94
232434CM	640389-9	9	.....	1.19	1.06
232442CM	1-640389-0	10	.....	1.33	1.18

#### Straight Headers

- Dimensions: (A) .450"; (B) .125"; (C) .125"

Part No.	Product No.	Positions	1	10	100
231458CM	640383-2	2	.....	\$.23	\$.20
231466CM	640383-3	3	.....	\$.26	\$.20
231474CM	640383-4	4	.....	\$.29	\$.22
231482CM	640383-5	5	.....	\$.37	\$.27
231491CM	640383-6	6	.....	\$.40	\$.32
231503CM	640383-7	7	.....	\$.47	\$.34
231511CM	640383-8	8	.....	\$.55	\$.39
231520CM	640383-9	9	.....	\$.60	\$.45
231538CM	1-640383-0	10	.....	\$.69	\$.56

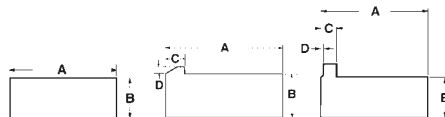
## AMP

### .156" (3.96mm) Female Housing

- Voltage and current rating: 250VAC @ 6.5A maximum
- Material: nylon, unreinforced 94V-0
- Insulation resistance: 1,000MΩ minimum
- Dielectric withstanding voltage: 2kVAC
- Hole diameter: .054" (1.37mm)



Side View



Without Locking Ramp

With Locking Ramp

With Locking Ramp & Polarizing Tabs

#### Without Locking Ramp

- Dimensions: (A) .660"; (B) .250"

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236232CM	640251-2	2	.....*	\$.096	\$.095
236241CM	640251-3	3	.....	\$.20	\$.08
236259CM	640251-4	4	.....	\$.29	\$.107
236267CM	640251-5	5	.....*	\$.114	\$.106
236275CM	640251-6	6	.....	\$.25	\$.19
236283CM	640251-7	7	.....	\$.42	\$.213
236291CM	640251-8	8	.....	\$.45	\$.373
236304CM	640251-9	9	.....	\$.46	\$.419
236312CM	1-640251-0	10	.....	\$.27	\$.243

#### With Locking Ramp

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .0365"

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236144CM	640250-2	2	.....*	\$.152	\$.134
236152CM	640250-3	3	.....*	\$.086	\$.076
236161CM	640250-4	4	.....*	\$.162	\$.15
236179CM	640250-5	5	.....	\$.20	\$.138
236187CM	640250-6	6	.....	\$.21	\$.15
236195CM	640250-7	7	.....	\$.24	\$.15
236208CM	640250-8	8	.....	\$.22	\$.155
236216CM	640250-9	9	.....	\$.45	\$.337
236224CM	1-640250-0	10	.....	\$.51	\$.349

#### With Locking Ramp and Polarizing Tabs

- Dimensions: (A) .660"; (B) .250"; (C) .100"; (D) .019" ±.003"

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
236321CM	770849-2	2	.....*	\$.114	\$.105
236339CM	770849-3	3	.....	\$.22	\$.12
236347CM	770849-4	4	.....	\$.20	\$.173
236355CM	770849-5	5	.....*	\$.171	\$.154
236363CM	770849-6	6	.....	\$.30	\$.28
236371CM	770849-7	7	.....	\$.36	\$.326
236380CM	770849-8	8	.....	\$.39	\$.365
236398CM	770849-9	9	.....	\$.46	\$.39
236401CM	1-770849-0	10	.....	\$.31	\$.307

## AMP

### .156" Crimp Contacts

- Voltage rating: 250VAC
- Current rating: 10A max.
- Low level resistance: 30mΩ max.
- Dielectric withstanding voltage: 2000VAC/1 min.
- Insulation resistance: 1000MΩ minimum
- Compatible with .045" square or round posts
- Material and finish:
  - \*A: brass, 0.012" bright tin plated
  - \*B: brass, 0.012" pre-tin plated
  - \*C: brass, 0.00030" gold over nickel plated
  - \*D: phosphor bronze, 0.012" bright tin plated
  - \*E: phosphor bronze, 0.0003" gold over nickel plated
- For use with .156" AMP housings (bottom left)
- Prepackaged: order in increments of 10, 100 or 500



\*Fig. 1

(High-Force)

\*Fig. 2

(Low-Force)

\*Fig. 3

(Hooded - Dual Wipe)

Part No.	Product No.	Desc.*	AWG	10	100	500
248866CM	640706-1	1A	18-24	\$.171	\$.155	\$.145
248874CM	640706-2	1B	18-24	\$.152	\$.14	\$.13
248882CM	640707-1	2A	18-24	\$.20	\$.175	\$.119
248891CM	770258-1	2C	18-24	\$.39	\$.35	\$.32
248903CM	770522-1	3D	18-24	\$.19	\$.138	\$.123
248911CM	770258-2	3E	18-24	\$.30	\$.27	\$.23

## AMP

### MTA-156 (.156") Housings & Accessories

#### Housings

- Housing material: UL 94V-2 rated nylon
- Contacts: copper alloy with 2.03m" tin plating
- Accepts 1.14mm (0.045") posts

\*Prepackaged: please order in increments of 10 or 100

#### 18AWG w/o tabs

Part No.	Product No.	Positions	1	10	100
524592CM	640426-2	2	.....*	\$.152	\$.137
524605CM	640426-3	3	.....*	\$.115	\$.104
524613CM	640426-4	4	.....	\$.26	\$.234
524621CM	640426-5	5	.....	\$.52	\$.396
524630CM	640426-6	6	.....	\$.24	\$.202

#### 22AWG w/o tabs

Part No.	Product No.	Positions	1	10	100
524648CM	640428-2	2	.....*	\$.132	\$.119
524656CM	640428-4	4	.....	\$.20	\$.164
524664CM	640428-6	6	.....	\$.24	\$.202

#### Closed End Strain Relief Covers

Part No.	Product No.	Positions	1	10	100
525106CM	640428-2	2	.....	\$.23	\$.215
				\$.201	

#### Keying Plug

Part No.	Product No.	1	10
525026CM	640629-1	.....*	\$.078

## AMP

### Manual Pistol Hand Grip Tool

- For use with MTA Connectors



Part No.	Product No.	1	10
526635CM	58074-1	.....	\$.52.75
			\$.50.48

\* These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## molex KK® Series .100" (2.54mm) Pitch Crimp Terminal Housing

### High Pressure

- Voltage: 250V
- Current: 2.5A
- Contact resistance: 20mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: white nylon, UL04V-0

\* Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
516218CM	10-11-2023	2	..... *	\$ .069	\$ .065
516226CM	10-11-2033	3	..... *	.103	.098
516234CM	10-11-2043	4	..... .20	.141	.134
516242CM	10-11-2053	5	..... .26	.247	.171
516251CM	10-11-2063	6	..... .20	.185	.176
516277CM	10-11-2083	8	..... .30	.28	.25
516293CM	10-11-2103	10	..... .33	.31	.295
516314CM	10-11-2123	12	..... .44	.417	.397

## molex SPOX™ .156" (3.96mm) Pitch Headers

### Right Angle, Friction Lock

- Voltage: 250V
- Current: 7A
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC/1 min.
- Insulation resistance: 1000MΩ min.
- Housing: 6/6 nylon, UL94V-2
- Contacts: brass w/ tin plating, 0.045" square posts

\* Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
519881CM	09-75-2024	2	..... \$ .28	\$ .267	\$ .254
519890CM	09-75-2034	3	..... .48	.456	.342
519902CM	09-75-2044	4	..... .44	.42	.392
519929CM	09-75-2064	6	..... .87	.83	.79

## molex .156" (3.96mm) Pitch Headers

### Vertical

- Voltage: 250V
- Current: 7A
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC/1 min.
- Insulation resistance: 1000MΩ min.
- Housing: 6/6 nylon, UL94V-2
- Contacts: brass w/ tin plating, 0.045" square posts

\* Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Positions	1	10	100
519751CM	09-67-4061	6	..... \$ .55	\$ .52	\$ .495
519831CM	09-67-4101	10	..... *	.65	.81

## Commercial Customers



Open an account with us to consolidate your monthly billing and save time.  
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Color Code Legend  
New Sale Lower\$ QtySave

## molex KK® Series .156" (3.96mm) Pitch Crimp Terminal Housing

### With Locking Ramp (KK Series 2139)

- Voltage: 250VAC max.
- Current: phosphor bronze – 7A max.; brass – 5A max.
- Contact resistance: 6mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 50k MΩ min.
- Housing: nylon, UL94V-2

Part No.	Product No.	Positions	1	10	100
463427CM	09-50-3021	2	..... \$ .20	\$ .095	\$ .086
463435CM	09-50-3031	3	..... .20	.13	.124
463443CM	09-50-3041	4	..... .25	.173	.165
463460CM	09-50-3061	6	..... .31	.295	.257
463486CM	09-50-3081	8	..... .36	.346	.33
463507CM	09-50-3101	10	..... .40	.385	.366
463523CM	09-50-3121	12	..... .61	.58	.495

## molex KK® Series .156" (3.96mm) Pitch Crimp Terminal Housing

### With Locking Ramp (KK Series 41695)

- Voltage: 250VAC
- Current: phosphor bronze – 7A max.; brass – 5A max.
- Contact resistance: 6mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 500k MΩ min.
- Housing: polyester, UL94V-0

Part No.	Product No.	Positions	1	10	100
481393CM	09-50-8021	2	..... \$ .20	\$ .104	\$ .095
481406CM	09-50-8031	3	..... .20	.122	.121
481422CM	09-50-8041	4	..... .24	.178	.164
481449CM	09-50-8051	5	..... .27	.209	.198
481465CM	09-50-8061	6	..... .29	.246	.234
481502CM	09-50-8081	8	..... .35	.334	.315
481334CM	09-50-8101	10	..... .72	.62	.409
481060CM	09-50-8121	12	..... .84	.66	.485

## molex KK® Terminals

- Voltage: 250V
- Current: 4A
- Contact resistance: 20mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 50k MΩ min.
- Phosphor bronze
- 22-30 AWG (462951CM/462969CM: cat ear)
- Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Plating	10	100
462951CM	08-65-0804	Tin	..... \$ .076	\$ .067
462969CM	08-65-0805	Tin	..... .10	.09
462977CM	08-65-0813	15μ gold	..... .295	.28
462985CM	08-65-0814	15μ gold	..... .437	.418
463005CM	08-65-0816	15μ sel. gold	..... .147	.14

## molex KK® Series .156" (3.96mm) Crimp Terminals

### Trifurcon Terminals

- Brass with tin plating
- 22-26AWG (cat ear)
- Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Description	10	100
462740CM	08-50-0131	18-22AWG	..... \$ .04	\$ .033
462774CM	08-50-0165	18-20 AWG	..... .105	.095

## molex KK® Series .156" (3.96mm) Pitch PCB Connectors

### Bottom Entry

- Voltage: 250VAC
- Current: 5A
- Contact resistance: 6mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 50k MΩ min.
- Contact: brass with .38μm select gold

Part No.	Product No.	Positions	1	10	100
523223CM	09-62-3032	3	..... \$ .75	\$ .461	\$ .439
523240CM	09-62-3042	4	..... .95	.84	.59
523274CM	09-62-3062	6	..... .98	.93	.88
523320CM	09-62-3082	8	..... 2.29	1.88	1.18
523418CM	09-62-3122	12	..... 1.95	1.85	1.76

## molex KK® Series .156" (3.96mm) Pitch Wire-to-Board Terminal Housing

### With Locking Ramp

- Voltage: 250V
- Current: 7A
- Contact resistance: 20mΩ max.
- Dielectric w/standing voltage: 1500V
- Insulation resistance: 500k MΩ min.
- Housing: nylon, UL94V-2

Part No.	Product No.	Positions	1	10	100
520031CM	09-91-0200	2	..... \$ .31	\$ .289	\$ .275
520049CM	09-91-0300	3	..... .57	.542	.409
520057CM	09-91-0400	4	..... .45	.43	.41
520065CM	09-91-0500	5	..... .42	.395	.377
520073CM	09-91-0600	6	..... .44	.42	.40
520209CM	09-91-2000	20	..... .94	.89	.85

## molex KK® Series .156" (3.96mm) Pitch PCB Connectors

### Bottom Entry—Type B

- Voltage: 250VAC
- Current: 5A
- Contact resistance: 6mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 50k MΩ min.
- Contacts: brass or phosphor bronze with tin-lead plating
- Housing: nylon, UL94V-2

Part No.	Product No.	Positions	1	10	100
481588CM	09-52-3042	4	..... \$ .41	\$ .386	\$ .367
481596CM	09-52-3052	5	..... .50	.47	.447
481609CM	09-52-3062	6	..... .91	.86	.65
481617CM	09-52-3072	7	..... 1.03	.98	.70
481633CM	09-52-3082	8	..... .99	.94	.72

## molex KK® Series .156" (3.96mm) Pitch PCB Connector

### Right Angle

- Voltage: 250VAC max.
- Current: 5A
- Contact resistance: 6mΩ max.
- Dielectric w/standing voltage: 1500VAC
- Insulation resistance: 50k MΩ min.
- Housing: nylon, UL94V-2
- Contact: brass with 0.38μm select gold

Part No.	Product No.	Positions	1	10	100
523371CM	09-62-3101	10	..... \$2.69	\$2.37	\$1.40

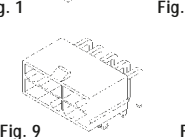
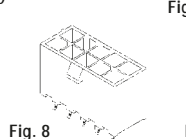
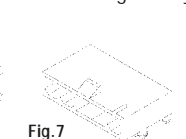
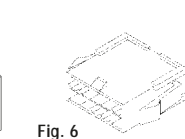
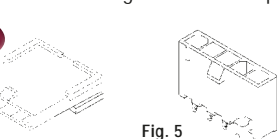
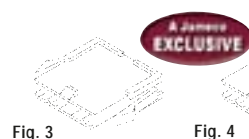
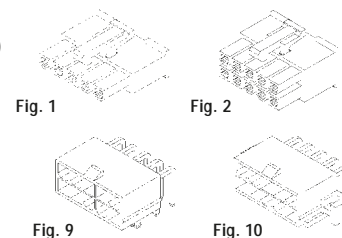


## .165" (4.2mm) Connectors Molex Mini-Fit Jr. Value Equivalents

- Low profile design to accommodate height constraints
- Fully isolated terminals to protect contacts from damage
- Contact resistance: 10mΩ

- UL rating: 94V-2
- Positive locking housings
- Voltage: 600V
- Temp.: -40°C to +150°C

- Pitch: 0.165" (4.2mm)
- Current: up to 9A
- Housing: 6/6 Nylon Natural



### 5557 Series Connector Equivalents

#### Receptacle Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364584CM	39-01-4030	1	3 ...	\$ .20	\$ .147	\$ .124
364592CM	39-01-4040	1	4 .....	.33	.267	.226
364605CM	39-01-4050	1	5 .....	.33	.265	.223

#### Receptacle Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364736CM	39-01-2020	2	2 ...	\$ .27	\$ .24	\$ .162
364744CM	39-01-2040	2	4 .....	.20	.176	.119
364752CM	39-01-2060	2	6 .....	.38	.34	.23
364761CM	39-01-2080	2	8 .....	.43	.371	.258
364779CM	39-01-2100	2	10 .....	.42	.374	.252
364787CM	39-01-2120	2	12 .....	.47	.421	.283
364795CM	39-01-2140	2	14 .....	.57	.51	.343
364808CM	39-01-2160	2	16 .....	.59	.522	.351
364824CM	29-01-2200	2	20 .....	.75	.666	.448
364832CM	39-01-2220	2	22 .....	.99	.912	.611
364841CM	39-01-2240	2	24 .....	.84	.744	.502

### 5559 Series Connector Equivalents

#### Plugs - Panel Mount w/ Ears, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364613CM	39-01-4032	3	3 ...	\$ .24	\$ .195	\$ .165
364621CM	39-01-4052	3	5 .....	.32	.258	.218

#### Plugs - Panel Mount w/ Ears, Dual Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364859CM	39-01-2021	6	2 ...	\$ .27	\$ .242	\$ .162
364867CM	39-01-2041	6	4 .....	.39	.363	.24
364875CM	39-01-2061	6	6 .....	.43	.371	.248
364883CM	39-01-2081	6	8 .....	.35	.312	.21
364891CM	39-01-2101	6	10 .....	.42	.374	.252
364904CM	39-01-2121	6	12 .....	.43	.382	.257
364912CM	39-01-2141	6	14 .....	.59	.435	.336
364921CM	39-01-2161	6	16 .....	.62	.506	.44

#### Plugs - Free Hanging w/o Ears, Single Row

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364630CM	39-01-4036	4	3 ...	\$ .31	\$ .254	\$ .214
364648CM	39-01-4046	4	4 .....	.24	.196	.166
364656CM	39-01-4056	4	5 .....	.27	.22	.186

### 5566 Series PCB Header Equivalents

#### Vertical Single Row w/ Pegs & Drain Holes - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364672CM	39-30-2035	5	3 ...	\$ .75	\$ .466	\$ .378
364681CM	39-30-2045	5	4 .....	.89	.55	.445
364699CM	39-30-2056	5	5 ...	1.25	.751	.607

Over 99% of Our Catalog  
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### 5566 Series PCB Header Equivalents (Con't)

#### Vertical Dual Row without Pegs without Drain Holes - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364939CM	39-28-1023	8	2 ...	\$ .60	\$ .516	\$ .36
364947CM	39-28-1043	8	4 .....	.77	.672	.464
364955CM	39-28-1063	8	6 ...	1.05	.877	.632
364963CM	39-28-1083	8	8 ...	1.19	.99	.737
364971CM	39-28-1103	8	10 ...	1.39	1.24	.818
364980CM	39-28-1123	8	12 ...	1.49	1.29	.915
364998CM	39-28-1143	8	14 ...	1.89	1.71	1.22
365000CM	39-28-1163	8	16 ...	2.09	1.89	1.35
365018CM	39-28-1183	8	18 ...	2.39	2.15	1.46
365026CM	39-28-1203	8	20 ...	2.85	2.48	1.72
365034CM	39-28-1223	8	22 ...	1.09	.96	.923
365042CM	39-28-1243	8	24 ...	3.19	2.66	1.92

#### Vertical Dual Row without Pegs without Drain Holes - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365051CM	39-29-0023	8	2 ...	\$ .74	\$ .577	\$ .496
365069CM	39-29-0043	8	4 ...	1.19	1.15	.904
365077CM	39-29-0063	8	6 ...	1.39	1.19	.944
365085CM	39-29-0103	8	8 ...	2.19	2.15	2.14
365093CM	39-29-0123	8	10 ...	2.19	1.84	1.49
365106CM	39-29-0143	8	12 ...	3.19	3.15	3.14
365114CM	39-29-0163	8	14 ...	3.75	3.71	3.69
365122CM	39-29-0163	8	16 ...	4.19	4.15	4.09
365131CM	39-29-0183	8	18 ...	4.69	4.65	4.63
365149CM	39-29-0203	8	20 ...	5.29	5.25	5.19
365157CM	39-29-0223	8	22 ...	5.85	5.83	5.82
365165CM	39-29-0243	8	24 ...	6.29	6.23	6.12

### 5569 Series PCB Header Equivalents

#### Right Angle Single Row w/ Pegs - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
364701CM	39-30-3035	7	3 ...	\$ .85	\$ .502	\$ .406
364710CM	39-30-3045	7	4 .....	.79	.476	.386
364728CM	39-30-3055	7	5 .....	.99	.614	.496

#### Right Angle Dual Row w/ Pegs - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365173CM	39-30-1020	9	2 ...	\$ .53	\$ .476	\$ .322
365181CM	39-30-1040	9	4 .....	.55	.419	.284
365190CM	39-30-1060	9	6 .....	.69	.521	.352
365202CM	39-30-1080	9	8 .....	.72	.616	.416
365211CM	39-30-1100	9	10 .....	.99	.758	.512
365229CM	39-30-1120	9	12 ...	1.19	.90	.608
365237CM	39-30-1140	9	14 ...	1.15	.99	.689
365245CM	39-30-1160	9	16 ...	1.55	1.19	.81
365253CM	39-30-1180	9	18 ...	1.39	1.16	.948
365261CM	39-30-1200	9	20 ...	1.49	1.28	1.14
365270CM	39-30-1220	9	22 ...	2.05	1.98	1.90
365288CM	39-30-1240	9	24 ...	2.19	1.99	1.91

### 5569 Series PCB Header Equivalents (Con't)

#### Right Angle Dual Row w/ Pegs - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365325CM	39-30-1021	9	2 ...	\$1.39	\$1.25	\$ .84
365333CM	39-30-1041	9	4 .....	.95	.94	.928
365341CM	39-30-1061	9	6 ...	1.09	.995	.952
365350CM	39-30-1081	9	8 ...	1.49	1.45	1.43
365368CM	39-30-1101	9	10 ...	1.69	1.62	1.54
365376CM	39-30-1121	9	12 ...	2.05	1.79	1.72
365384CM	39-30-1141	9	14 ...	2.45	2.41	2.39
365392CM	39-30-1161	9	16 ...	2.85	2.79	2.76
365405CM	39-30-1181	9	18 ...	3.25	2.96	2.90
365413CM	39-30-1201	9	20 ...	3.49	3.29	3.09
365421CM	39-30-1221	9	22 ...	4.25	4.22	4.15
365430CM	39-30-1241	9	24 ...	4.75	4.73	4.68

#### Right Angle - Dual Row w/ Flanges - Tin

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365448CM	39-29-1028	10	2 ...	\$ .39	\$ .348	\$ .232
365456CM	39-29-1048	10	4 .....	.49	.435	.296
365464CM	39-29-1068	10	6 ...	.62	.569	.384
365472CM	39-29-1088	10	8 ...	.76	.672	.456
365481CM	39-29-1108	10	10 ...	.91	.837	.568
365499CM	39-29-1128	10	12 ...	1.05	.94	.64
365501CM	39-29-1148	10	14 ...	1.15	.97	.80
365510CM	39-29-1168	10	16 ...	1.49	1.35	.91
365528CM	39-29-1188	10	18 ...	1.69	1.68	1.67
365536CM	39-29-1208	10	20 ...	1.79	1.51	1.22
365544CM	39-29-1228	10	22 ...	3.15	2.80	1.92
365552CM	39-29-1248	10	24 ...	3.89	3.30	2.34

#### Right Angle - Dual Row w/ Flanges - Gold

Part No.	Cross Ref. No.	Fig.	Positions	1	10	100
365561CM	39-39-5023	10	2 ...	\$1.35	\$1.19	\$ .808
365579CM	39-39-5043	10	4 ...	1.55	1.37	.928
365587CM	39-39-5063	10	6 ...	2.25	1.98	1.36
365595CM	39-39-5083	10	8 ...	2.55	2.28	1.54
365608CM	39-39-5103	10	10 ...	1.89	1.79	1.76
365616CM	39-39-5123	10	12 ...	3.39	3.04	2.06
365624CM	39-39-5143	10	14 ...	3.89	3.71	2.56
365632CM	39-39-5163	10	16 ...	4.85	4.34	2.94
365641CM	39-39-5183	10	18 ...	3.45	3.39	3.06
365659CM	39-39-5203	10	20 ...	3.95	3.89	3.88
365667CM	39-39-5223	10	22 ...	4.45	4.42	4.36
365675CM	39-39-5243	10	24 ...	4.99	4.97	4.95

### Hand Crimp Tools for Mini-Fit Jr.



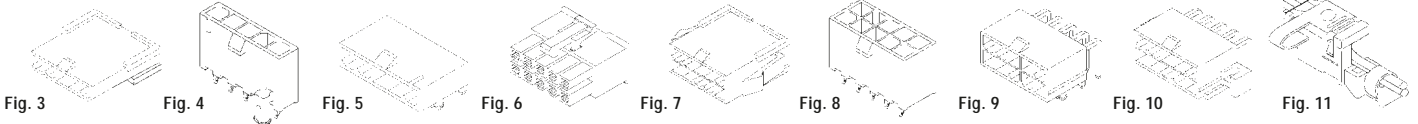
308030CM: Cuts & strips 14-24 AWG wires  
227491CM: Cuts & strips 18-30 AWG wires

Part No.	Product No.	Length	Color	1	5
308030CM	W-HT-1919	8.3"L	Red	\$14.99	\$13.99
227491CM	W-HT-1921	8.3"L	Yellow	14.99	13.99



## .165" (4.2mm) Mini-Fit Jr. Connectors

- Use with strain relief or overmold applications
- UL/CSA/TUV approved
- Uses standard Mini-Fit series terminals
- Positive housing lock for secure mating retention
- Fully isolated terminals to protect contacts from damage
- Housing: 6/6 nylon natural, UL 94V-2 rated



### Single Row Receptacles and Plugs

#### Receptacles

Part No.	Product No.	Fig.	Pos.	1	10	100
303765CM	39-01-4030	1	3	....\$ .43	\$.319	\$.203
303773CM	39-01-4040	1	4	....\$ .40	\$.318	\$.268
303781CM	39-01-4050	1	5	....\$ .39	\$.315	\$.265

#### Panel Mount Plugs w/ Mounting Ears

303790CM	39-01-4032	2	3	....\$ .46	\$.414	\$.276
303829CM	39-01-4052	2	5	....\$ .38	\$.307	\$.258

#### Panel Mount Plugs w/o Mounting Ears

303802CM	39-01-4036	3	3	....\$ .37	\$.302	\$.254
303811CM	39-01-4046	3	4	....\$ .49	\$.404	\$.295
303837CM	39-01-4056	3	5	....\$ .53	\$.461	\$.329

#### Single Row Headers

- Voltage: 600V • Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

#### Vertical Headers w/ Pegs

Part No.	Product No.	Fig.	Pos.	1	10	100
304565CM	39-30-1039	4	3	....\$ .90	\$.537	\$.433
304573CM	39-30-2035	4	3	....\$ .91	\$.55	\$.448
304581CM	39-30-2045	4	4	....\$ 1.49	1.24	\$.88
304590CM	39-30-2056	4	5	....\$ 1.55	\$.90	\$.72

#### Right Angle Headers w/ Pegs

304602CM	39-30-3035	5	3	....\$ 1.02	\$.59	\$.482
304611CM	39-30-3045	5	4	....\$ 1.05	\$.96	\$.542
304629CM	39-30-3055	5	5	....\$ 1.55	1.35	\$.89

### Double Row Receptacles

Part No.	Product No.	Fig.	Pos.	1	10	100
303562CM	39-01-2020	6	2	....\$ .27	\$.215	\$.162
303571CM	39-01-2040	6	4	....\$ .41	\$.341	\$.232
303589CM	39-01-2060	6	6	....\$ .40	\$.361	\$.243
303597CM	39-01-2080	6	8	....\$ .45	\$.406	\$.274
303600CM	39-01-2100	6	10	....\$ .50	\$.445	\$.299
303618CM	39-01-2120	6	12	....\$ .56	\$.501	\$.336
303626CM	39-01-2140	6	14	....\$ .69	\$.61	\$.415
303634CM	39-01-2160	6	16	....\$ .72	\$.62	\$.417
303642CM	39-01-2180	6	18	....\$ .81	\$.72	\$.485
303651CM	39-01-2200	6	20	....\$ .89	\$.79	\$.532
303669CM	39-01-2220	6	22	....\$ 1.39	1.09	\$.95
303677CM	39-01-2240	6	24	....\$ .99	\$.89	\$.59

### Double Row Plugs

#### Panel Mount Plugs w/ Mounting Ears

Part No.	Product No.	Fig.	Pos.	1	10	100
303685CM	39-01-2021	7	2	....\$ .32	\$.264	\$.193
303693CM	39-01-2041	7	4	....\$ .47	\$.392	\$.267
303706CM	39-01-2061	7	6	....\$ .51	\$.364	\$.268
303714CM	39-01-2081	7	8	....\$ .42	\$.371	\$.25
303722CM	39-01-2101	7	10	....\$ .50	\$.445	\$.299
303731CM	39-01-2121	7	12	....\$ .51	\$.454	\$.305
303749CM	39-01-2141	7	14	....\$ .70	\$.517	\$.399
303757CM	39-01-2161	7	16	....\$ .75	\$.59	\$.49

### Double Row Headers

- Voltage: 600V • Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 1000MΩ min.
- Contact: brass or phosphor bronze

#### Vertical Headers w/o Pegs – Tin Plated

Part No.	Product No.	Fig.	Pos.	1	10	100
303845CM	39-28-1023	8	2	....\$ .68	\$.415	\$.344
303853CM	39-28-1043	8	4	....\$ .89	\$.76	\$.55
303861CM	39-28-1063	8	6	....\$ 1.19	\$.95	\$.65
303870CM	39-28-1083	8	8	....\$ 1.39	1.19	\$.85
303888CM	39-28-1103	8	10	....\$ 1.65	1.45	\$.96
303896CM	39-28-1123	8	12	....\$ 1.79	1.27	\$.888
303909CM	39-28-1143	8	14	....\$ 2.25	1.98	1.39
303917CM	39-28-1163	8	16	....\$ 2.49	2.11	1.46
303925CM	39-28-1183	8	18	....\$ 2.89	2.56	1.71
303933CM	39-28-1203	8	20	....\$ 3.39	2.95	2.01
303941CM	39-28-1223	8	22	....\$ 3.15	2.46	1.68
303950CM	39-28-1243	8	24	....\$ 3.79	3.16	2.25

#### Vertical Headers w/o Pegs – Gold Plated, 30μ"

303968CM	39-29-0023	8	2	....\$ .89	\$.69	\$.59
303976CM	39-29-0043	8	4	....\$ 2.05	1.81	1.07
303984CM	39-29-0063	8	6	....\$ 3.29	2.85	2.00
303992CM	39-29-0083	8	8	....\$ 4.45	3.97	2.65
304004CM	39-29-0103	8	10	....\$ 5.05	4.47	2.99
304012CM	39-29-0123	8	12	....\$ 5.65	5.22	3.49
304021CM	39-29-0143	8	14	....\$ 6.85	6.08	4.07
304039CM	39-29-0163	8	16	....\$ 7.75	6.87	4.59
304047CM	39-29-0183	8	18	....\$ 8.65	7.68	5.14
304055CM	39-29-0203	8	20	....\$ 9.15	8.12	5.43
304063CM	39-29-0223	8	22	....\$ 10.55	9.30	6.22
304071CM	39-29-0243	8	24	....\$ 11.49	10.58	6.76

#### Right Angle Headers w/ Pegs – Tin Plated

304080CM	39-30-1020	9	2	....\$ .64	\$.61	\$.51
304098CM	39-30-1040	9	4	....\$ .65	\$.49	\$.47
304101CM	39-30-1060	9	6	....\$ .82	\$.62	\$.59
304119CM	39-30-1080	9	8	....\$ .98	\$.74	\$.71
304127CM	39-30-1100	9	10	....\$ 1.19	\$.91	\$.85
304135CM	39-30-1120	9	12	....\$ 2.49	2.16	1.47
304143CM	39-30-1140	9	14	....\$ 2.75	2.38	1.62
304151CM	39-30-1160	9	16	....\$ 3.05	2.35	1.70
304160CM	39-30-1180	9	18	....\$ 3.39	3.05	2.05
304178CM	39-30-1200	9	20	....\$ 3.95	3.49	2.33
304186CM	39-30-1220	9	22	....\$ 4.45	3.92	2.61
304194CM	39-30-1240	9	24	....\$ 4.95	4.39	2.92

### Strain Reliefs

- Voltage: 600V • Current: 9A
- Contact resistance: 10mΩ max.
- Dielectric withstanding voltage: 1500V
- Insulation resistance: 1000MΩ min.

Part No.	Product No.	Fig.	Pos.	1	10	100
304637CM	15-04-0296	11	6	....\$ 1.05	\$.99	\$.95
304645CM	15-04-0343	11	8	....\$ 1.14	1.08	\$.98
304653CM	15-04-0345	11	12	....\$ 1.15	1.09	\$.99

Fig. 1

Fig. 2

Fig. 9

Fig. 10

Fig. 11

### Double Row Headers (Continued)

#### Right Angle Headers w/ Pegs – Gold Plated, 30μ"

Part No.	Product No.	Fig.	Pos.	1	10	100
304207CM	39-30-1021	9	2	....\$ 1.69	\$1.50	\$1.00
304215CM	39-30-1041	9	4	....\$ 2.15	1.90	1.26
304223CM	39-30-1061	9	6	....\$ 2.65	2.36	1.57
304231CM	39-30-1081	9	8	....\$ 3.19	2.85	1.90
304240CM	39-30-1101	9	10	....\$ 3.85	3.39	2.26
304258CM	39-30-1121	9	12	....\$ 3.29	3.25	2.65
304266CM	39-30-1141	9	14	....\$ 5.25	4.67	3.12
304274CM	39-30-1161	9	16	....\$ 6.05	5.41	3.60
304282CM	39-30-1181	9	18	....\$ 4.55	4.39	3.44
304291CM	39-30-1201	9	20	....\$ 7.25	6.47	4.31
304303CM	39-30-1221	9	22	....\$ 8.65	7.70	5.13
304311CM	39-30-1241	9	24	....\$ 10.15	9.05	6.03

#### Right Angle Headers w/ Flange – Tin Plated

304320CM	39-29-1028	10	2	....\$ .55	\$.42	\$.39
304338CM	39-29-1048	10	4	....\$ .69	\$.52	\$.49
304346CM	39-29-1068	10	6	....\$ .89	\$.68	\$.65
304354CM	39-29-1088	10	8	....\$ 1.05	\$.79	\$.75
304362CM	39-29-1108	10	10	....\$ 1.85	1.55	1.16
304371CM	39-29-1128	10	12	....\$ 2.15	1.81	1.36
304389CM	39-29-1148	10	14	....\$ 2.69	2.23	1.63
304397CM	39-29-1168	10	16	....\$ 2.69	2.46	1.84
304400CM	39-29-1188	10	18	....\$ 3.15	2.82	1.88
304418CM	39-29-1208	10	20	....\$ 3.75	3.32	2.21
304426CM	39-29-1228	10	22	....\$ 3.85	3.41	2.28
304434CM	39-29-1248	10	24	....\$ 4.69	3.97	2.78

#### Right Angle Headers w/ Flange – Gold Plated, 30μ"

304442CM	39-29-5023	10	2	....\$ 1.65	\$1.43	\$.96
304451CM	39-29-5043	10	4	....\$ 1.85	1.64	1.10
304469CM	39-29-5063	10	6	....\$ 2.75	2.38	1.62
304477CM	39-29-5083	10	8	....\$ 3.09	2.75	1.83
304485CM	39-29-5103	10	10	....\$ 4.09	3.65	2.43
304493CM	39-29-5123	10	12	....\$ 4.15	3.66	2.44
304506CM	39-29-5143	10	14	....\$ 5.15	4.55	3.04
304514CM	39-29-5163	10	16	....\$ 5.89	5.22	3.49
304522CM	39-29-5183	10	18	....\$ 6.75	5.99	4.01
304531CM	39-29-5203	10	20	....\$ 7.29	6.47	4.32
304549CM	39-29-5223	10	22	....\$ 8.65	7.68	5.13
304557CM	39-29-5243	10	24	....\$ 8.65	8.18	5.47



### Hand Tools for Mini-Fit Jr.




**304928CM:** Crimp tool  
• Accepts wire range from 14-24 AWG

**304936CM:** Extraction tool

Part No.	Product No.	1	5
304928CM	63811-1000	\$42.99	\$39.99
304936CM	11-03-0044	19.99	18.99



## .165" (4.2mm) Mini-Fit™ Jr. Equivalent Contacts



- \*Type\*:
- A: Tin over nickel over brass
  - B: 15µ" gold over nickel over brass
  - C: 30µ" gold over nickel over brass
  - D: Tin over nickel over phosphor bronze
  - E: 15µ" gold over nickel over phosphor bronze
  - F: 30µ" gold over nickel over phosphor bronze

\*Minimum order 10 pieces

Part No.	Cross Ref. No.	AWG	Type*	1	10	100
365747CM	39-00-0054	18-24	1C ..	.48	\$.356	\$.258
401859CM	39-00-0076	18-24	1B .....	..	.23	.228
365798CM	39-00-0088	22-28	1C .....	.30	.296	.295
365704CM	39-00-0096	16	1C .....	.30	.296	.293
401841CM	39-00-0098	22-28	1B .....	.31	.308	.304
401867CM	39-00-0099	16	1B .....	..	.15	.136
401824CM	39-00-0121	18-24	1A .....	..	.062	.044
401816CM	39-00-0123	22-28	1A .....	..	.075	.056
401832CM	39-00-0125	16	1A .....	..	.076	.075
401752CM	39-00-0126	22-28	2D .....	..	.056	.041
365886CM	39-00-0164	18-24	2C .....	.31	.30	.288
365915CM	39-00-0166	22-28	2C .....	.31	.30	.288
365835CM	39-00-0168	16	2C .....	.36	.308	.292
401736CM	39-00-0170	18-24	2B .....	.32	.315	.304
401728CM	39-00-0172	22-28	2B .....	.31	.30	.288
401744CM	39-00-0174	16	2B .....	.35	.32	.304
365851CM	39-00-0182	18-24	2F .....	.38	.371	.36
365907CM	39-00-0184	22-28	2F .....	.38	.371	.36
365827CM	39-00-0186	16	2F .....	.38	.371	.36
401795CM	39-00-0195	18-24	2E .....	.32	.315	.304
401787CM	39-00-0197	22-28	2E .....	.38	.365	.36
401808CM	39-00-0199	16	2E .....	.35	.32	.304
401701CM	39-00-0208	18-24	2A .....	..	.063	.048
401699CM	39-00-0210	22-28	2A .....	..	.056	.041
401710CM	39-00-0212	16	2A .....	..	.126	.118
401761CM	39-00-0214	18-24	2D .....	..	.076	.055
401779CM	39-00-0218	16	2D .....	..	.119	.104

## .165" (4.2mm) Mini-Fit Jr. Contacts

- Voltage: 600V
- Current: 9A (†12A current rating)
- Dielectric withstanding voltage: 1500V
- Contact resistance: 10mΩ max.
- Insulation resistance: 1000MΩ min.
- Material: \*A: Brass (pre-plated tin over copper)
- \*B: Brass or copper (post-plated tin over nickel)
- \*C: Brass (post-plated tin over nickel)
- \*D: Phosphor bronze (pre-plated gold over nickel)

### Male Contacts

\*Prepackaged: order in increments of 10 or 100

Part No.	Product No.	Desc.*	AWG	1	10	100
304661CM	44478-3112	†1B	16 .....	\$.20	\$.171	\$.152
304688CM	39-00-0224	†1D	16 .....	.85	.704	.508
304709CM	39-00-0096	†1C	16 .....	.62	.517	.376
304725CM	39-00-0041	†1A	18-24 .....	..	.056	.047
304741CM	39-00-0220	†1D	18-24 .....	.76	.704	.389
304792CM	30490-2012	†1D	18-24 .....	.25	.244	.209
304805CM	39-00-0054	†1C	18-24 .....	.43	.404	.306
304821CM	30490-1012	†1D	18-24 .....	.83	.686	.494
304768CM	44478-1112	†1B	22-28 .....	.28	.261	.171
304864CM	39-00-0049	†1A	22-28 .....	.20	.071	.07
304881CM	39-00-0222	†1D	22-28 .....	.76	.649	.466
304901CM	39-00-0088	†1C	22-28 .....	.43	.40	.361

• Sold in 4000 piece reel

Part No.	Product No.	Desc.*	AWG	Price
307985CM	39-00-0040	†1A	18-24 .....	\$108.00

## .175" (4.45mm) Common Crimp Housings

### Receptacle

- Female
- Replaces terminal blocks
- Stackable side-by-side
- Polarizing key available
- Fewer parts for inventory
- Simplified service
- Vertical
- UL 94V-0
- Circuit number identification

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete 0.175" Offering at [www.Jameco.com/Prod/MolexCrimpHousing](http://www.Jameco.com/Prod/MolexCrimpHousing)

## .198" (5.03mm) Pitch Pin & Socket Shrouded Headers

### Centers Crimp Style

- 3, 4, 6, 9, 12 and 15 circuits available
- Pre-assembled
- Intermix of male and female terminals for polarization
- Polarized housing design assures proper mating
- Voltage: 250V
- Current: 5.0A
- Dielectric withstanding voltage: 1500VAC min.
- Contact resistance: 10mΩ max.
- Polyester UL94V-0
- Brass or phosphor bronze contacts, tin plating
- Temp. range: -40°C to 105°C

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete .198" Series Offering at [www.Jameco.com/Prod/Molex198](http://www.Jameco.com/Prod/Molex198)

## .200" (5.08mm) Pitch PC Board Connectors

### Bottom Entry

- Sizes: 3 to 6 circuits
- Nylon 6/6, UL 94V-2
- Temp. range: -40° to 105°C
- Voltage: 250V
- Current: 7.0A
- Dielectric withstand voltage: 1500VAC min.
- Contact resistance: 8mΩ max.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete 0.200" Connector Offering at [www.Jameco.com/Prod/Molex200](http://www.Jameco.com/Prod/Molex200)

## Flat Blade Micro Switch Crimp Housings

### Receptacle

- Female
- PA Polyimide (Nylon) 6/6
- Temp. range: -30° to 105°C
- Vertical
- UL 94V-2

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Flat Blade Housing Offering at [www.Jameco.com/Prod/MolexCrimpHousing](http://www.Jameco.com/Prod/MolexCrimpHousing)

## Crimp Terminals

### 6482 Crimp Terminal

- 14-18 AWG

### 5298 Board-In Stand Alone Crimp Terminal

- 18-22 AWG

- Male

- Tin plated brass contact

### 5190 Board-In Stand Alone Crimp Terminal

- 22-26 AWG

- Male

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Crimp Terminal Offering at [www.Jameco.com/Prod/MolexCrimpTerminals](http://www.Jameco.com/Prod/MolexCrimpTerminals)

We're Listening to Your Requests

Email us 24/7 with suggestions for products you'd like to see in future catalogs.



**NewProducts@Jameco.com**



## HCS-125 0.330" (8.38mm) Pitch Pin and Socket Receptacle/Plug Housing

- Meets the need for a connector system rated at greater than the industry standard 12A per circuit
- Enhanced version of 0.125" connectors
- Positive locks
- Fully isolated terminals
- Voltage: 600V
- Current: 20A
- Dielectric withstanding voltage: 1500VACrms
- Housing: nylon UL94V-2 rated
- Accommodates wires 18-10AWG

**NEW**

462504CM

### Receptacle Housing

Part No.	Product No.	Pos.	1	10	100
462483CM	03-12-1026	2	\$.53	\$.494	\$.447
462491CM	03-12-1036	3	.75	.69	.523
462504CM	03-12-1046	4	.75	.71	.494

### Plug Housing Panel Mount

Part No.	Product No.	Pos.	1	10	100
462521CM	03-12-2015	1	\$1.21	\$1.15	\$.97
462555CM	03-12-2025	2	.69	.63	.469
462571CM	03-12-2035	3	1.14	.81	.61
462598CM	03-12-2045	4	.43	.411	.391

### Plug Housing Free Hanging

Part No.	Product No.	Pos.	1	10	100
462539CM	03-12-2016	1	\$.30	\$.282	\$.212
462563CM	03-12-2026	2	.65	.57	.428
462580CM	03-12-2036	3	1.47	1.03	.78
462601CM	03-12-2046	4	.75	.71	.523

## Cinch Jones Plugs and Sockets

### Series 300 Multiple-Density Solder-Eyelet Connectors with Hood and 180° Clamp

- Insulation material: molded mono-block, black phenolic
- Contact material: plug – brass; socket – phosphor bronze
- Contact plating: cadmium
- Hood material: UL 94V-0 rated thermoplastic
- Operating voltage: 250 VAC RMS maximum
- Current rating: 10 amps
- Contact resistance: 16mΩ max.



248786CM



248823CM

### Plugs

Part No.	Product No.	Contacts	1	25
248760CM	P-302-CCT	2	\$2.15	\$1.96
248778CM	P-303-CCT	3	2.39	2.15
248786CM	P-304-CCT	4	3.09	2.49
248794CM	P-306-CCT	6	2.89	2.62
445966CM	P-312-CCT	12	4.69	4.20
445982CM	P-315-CCT	15	6.45	5.84
446029CM	P-318-CCT	18	6.05	5.44
446053CM	P-321-CCT	21	9.89	8.93
446070CM	P-324-CCT	24	8.95	8.14

### Plugs with Hood and 90° Clamp

Part No.	Product No.	Contacts	1	25
445819CM	P-302-CCE	2	\$2.09	\$1.96
445991CM	P-315-CCE	15	5.95	5.51
446037CM	P-318-CCE	18	5.49	5.04

**Cinch**

## Jones Plugs and Sockets (Continued)

### Socket with Hood and 90° Clamp

**NEW**

Part No.	Product No.	Contacts	1	25
427987CM	S-318-CCE	18	\$6.65	\$6.13

### Plugs with Locks and 180° Clamp

Part No.	Product No.	Contacts	1	25
445827CM	P-302-CCT-L	2	\$4.79	\$4.33
445940CM	P-306-CCT-L	6	6.45	5.84
446002CM	P-315-CCT-L	15	7.39	6.67

### Sockets with Hood and 180° Clamp

Part No.	Product No.	Contacts	1	25
248807CM	S-302-CCT	2	\$2.29	\$2.11
248815CM	S-303-CCT	3	2.69	2.43
248823CM	S-304-CCT	4	2.69	2.46
248831CM	S-306-CCT	6	3.09	2.80
427952CM	S-315-CCT	15	7.05	6.34
427995CM	S-321-CCT	21	10.55	9.65
428007CM	S-327-CCT	27	9.09	8.39
428242CM	S-330-CCT	30	10.49	9.46
428218CM	S-333-CCT	33	13.29	12.61

### Sockets with Keepers and 180° Clamp

Part No.	Product No.	Contacts	1	25
428015CM	S-302-CCT-K	2	\$4.39	\$3.97
428040CM	S-303-CCT-K	3	4.95	4.46
428111CM	S-304-CCT-K	4	4.59	4.13
428154CM	S-306-CCT-K	6	5.05	4.52

### Plugs with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
445771CM	P-302-AB	2	\$1.55	\$1.38
445843CM	P-303-AB	3	1.55	1.43
445860CM	P-304-AB	4	1.79	1.59
445907CM	P-306-AB	6	2.09	1.92
445974CM	P-315-AB	15	4.45	4.02

### Sockets with Angle Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
428023CM	S-302-AB	2	\$1.46	\$1.37
428058CM	S-303-AB	3	1.39	1.28
428120CM	S-304-AB	4	1.89	1.76
428171CM	S-306-AB	6	2.49	2.32

### Socket w/ Less Angle Bracket & 180° Clamp

Part No.	Product No.	Contacts	1	25
428066CM	S-303-LAB	3	\$.85	\$.77

### Plug with Recessed Plate and 180° Clamp

Part No.	Product No.	Contacts	1	25
445798CM	P-302-RP	2	\$3.49	\$3.29

### Socket with Recessed Plate and 180° Clamp

Part No.	Product No.	Contacts	1	25
428082CM	S-304-RP	4	\$3.25	\$3.00

### Plugs with Deep Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
445878CM	P-304-DB	4	\$4.75	\$4.25
445915CM	P-306-DB	6	4.95	4.47
446011CM	P-318-DB	18	5.35	4.87

### Sockets with Deep Bracket and 180° Clamp

Part No.	Product No.	Contacts	1	25
428162CM	S-306-DB	6	\$4.25	\$3.86
428251CM	S-318-DB	18	6.75	6.26
428269CM	S-327-DB	27	8.89	8.16

# Jones Plugs & Sockets

**Cinch**

## Replacement Drive Pins Series 300 Plugs and Sockets

### With Cable Clamps and Caps



448569CM

Part No.	Prod. No.	Contacts	Length	1	25
448551CM	302R	2	0.687"	\$.68	\$.57
448569CM	304R	4/6/8/10	0.718"	.43	.411

**Cinch**

## Series 2400 Jones Plugs and Sockets

### Multiple-Density Solder-Eyelet Connectors with Hood and 180° Clamp

- Plug prongs are 0.250" wide and 0.55" thick
- Socket contacts have solder eyelets with 0.093" diameter
- For use in cable-to-cable and cable-to-panel applications
- Insulation material: molded monoblock, general purpose phenolic, black
- Contact material: plug-brass; socket-phosphor bronze
- Contact plating: cadmium
- Hood material: formed metal with dielectric liner
- Operating voltage: 250VACrms
- Current rating: 15A • Current resistance: 1mΩ max.



428226CM



428277CM



444701CM



444664CM

### Plugs

**NEW**

Part No.	Product No.	Contacts	1	25
428234CM	P-2406-CCT	6	\$7.95	\$7.39
428197CM	P-2408-CCT	8	10.39	9.48
427944CM	P-2412-CCT	12	8.75	8.13

### Sockets

Part No.	Product No.	Contacts	1	25
428226CM	S-2402-CCT	2	\$7.25	\$6.87
444681CM	S-2406-CCT	6	8.45	7.45
444699CM	S-2408-CCT	8	7.39	6.76
444648CM	S-2410-CCT	10	8.39	7.75
444672CM	S-2412-CCT	12	12.29	11.21

### Plugs with Angle Bracket

Part No.	Product No.	Contacts	1	25
428277CM	P-2406-AB	6	\$8.15	\$7.41

### Socket with Angle Bracket

Part No.	Product No.	Contacts	1	25
444701CM	S-2408-AB	8	\$8.45	\$7.63

### Plug with Deep Bracket

Part No.	Product No.	Contacts	1	25
428091CM	P-2404-DB	4	\$4.89	\$4.58

### Socket with Deep Bracket

Part No.	Product No.	Contacts	1	25
444664CM	S-2412-DB	12	\$6.99	\$6.47

### Socket with Shallow Bracket

Part No.	Product No.	Contacts	1	25
444656CM	S-2412-SB	12	\$6.49	\$6.00

### Plug

Part No.	Product No.	Contacts	1	25
428189CM	P-2406-LAB	6	\$2.95	\$2.70

### Socket

Part No.	Product No.	Contacts	1	25
444904CM	S-2406-LAB	6	\$3.25	\$2.96

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Color Code Legend

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139



## Cinch

## Plug Buttons

- Nickel plated steel
- Spring tension prongs

**NEW**

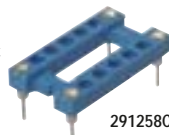
448614CM



Part No.	Prod. No.	Hole Dia.	Cup Dia.	1	25
448622CM	41B	0.375"	0.500"	.....	\$ .84 \$ .67
448614CM	41C	0.500"	0.656"	.....	.67 .532
448606CM	41V	1.00"	1.156"	.....	3.59 2.85

## ARIES Oscillator Sockets

- Body material: blue UL 94V-0 glass filled polyester thermoplastic
- Brass alloy pin, 1/2 hard w/ 200µ" (5.08µm) 93/7 tin/lead plating
- Contact current: 3A
- Center pin spacing: .300" (7.62mm)
- Operating temperature: 221°F (105°C)
- Suggested PCB hole size: .030" (.76mm)



Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Pos.	L" x W"	1	10	100
291282CM	1108800	8	.40 x .40	.....	\$.56	\$.47 \$ .38
291258CM	1107741	14	.70 x .40	.....	.56	.47 .38

## ARIES Universal SOIC to .600" DIP Adapter

### Series 647

- 44-pin adapter for mounting Aries Series 547 Universal SOIC ZIF test socket to 0.600" DIP PCB layout
- Black FR-4 body material, 0.094" thick with copper traces
- Brass alloy female pin body with 200µ" (5.08µm) tin/lead plating
- Beryllium copper 4-fingered collet contact with 10µ" (0.25µm) gold over nickel plating
- Phosphor bronze alloy male pin with 200µ" (5.08µm) tin / lead plating
- Contact current rating: 3A
- Suggested PCB hole size: 0.028" diameter

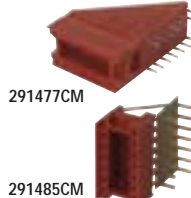


Part No.	Product No.	Price
295283CM	44-647-10	..... \$60.95

## ARIES Series 800 Vertisockets

### With Bifurcated Contacts

- Body material: UL 94-HB glass filled nylon
- Phosphor bronze spring tempered bifurcated contacts
- Contact plating: 100µ" (2.54µm) tin or 10µ" (.254µm) gold
- Contact current: 1.5A
- Suggested PCB hole size: 0.044" (1.12mm) dia.
- Gold plated (except 296770CM – tin plated)
- Center pins: 0.300" (except 291231CM – 0.200")



### Vertical Mount

Part No.	Product No.	Pins	L"xW"	1	10	100
291231CM	10-2810-90	10	1.0 x .29	\$4.99	\$4.19	\$3.39
291477CM	14-810-90R	14	1.4 x .39	2.69	2.39	1.85
296770CM	14-810-90T	14	1.4 x .39	3.65	3.25	2.49

### Horizontal Mount

291485CM	14-823-90	14	1.4 x .39	\$4.15	\$3.69	\$2.85
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### Horizontal Mounting w/ Collet Contacts

- Body material: UL 94-HB glass filled nylon
- Brass alloy pin body w/ 200µ" (5.07µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contacts
- Contact current: 3A • Center pins: 0.300" (7.62mm)
- Suggested PCB hole size: 0.035" (0.89mm) dia.



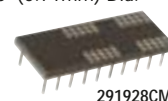
Part No.	Product No.	Pins	L"xW"	1	10	100
295241CM	40-6823-10	40	2.0 x .70	\$12.69	\$11.19	\$8.79

## ARIES SOIC/SOJ to DIP Adapters

- Board material: 0.062" thick FR-4 with 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) minimum tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028" (0.71mm) Dia.

### Series 35000X

- Center pins: 0.300" (7.62mm)
- SOIC package (except 291928CM – SOJ)



Part No.	Product No.	Pins	L"xW"	1	10	100
291207CM	08-350000-10	8	.400 x .46	\$6.59	\$5.59	\$4.50
291291CM	14-350000-10	14	.700 x .45	6.55	5.55	4.62
291515CM	16-350000-10	16	.800 x .45	6.55	5.59	4.65
291864CM	18-350000-10	18	.900 x .45	6.55	5.55	4.70
291910CM	20-350000-10	20	1.0 x .45	6.55	5.55	4.59
291928CM	20-350001-10	20	1.0 x .42	6.05	5.99	5.35
291979CM	24-350000-10	24	1.2 x .45	4.45	4.33	4.23
292074CM	28-350000-10	28	1.4 x .40	6.05	5.89	5.85

### Series 45000X

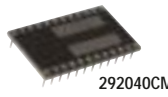
- Center pins: 0.400" (10.16mm)
- SOJ package



Part No.	Product No.	Pins	L"xW"	1	10	100
295179CM	32-450001-10	32	1.6 x .53	\$9.09	\$8.99	\$8.89

### Series 65000X

- Center pins: 0.600" (15.24mm)
- SOIC package (except 295187CM – SOJ)



Part No.	Product No.	Pins	L"xW"	1	10	100
295187CM	32-650000-10	32	1.6 x .70	\$10.35	\$10.25	\$10.15
292040CM	24-650000-10	24	1.2 x .70	9.19	8.55	7.09
295144CM	28-650000-10	28	1.4 x .70	10.35	10.25	10.15

## ARIES EJECT-A-DIP DIP Collet Sockets

### With Solder Tail Pins

- Latch and body: UL 94V-0 glass-filled polyester thermoplastic
- Brass alloy pin body w/ 200µ" (5.08µm) 93/7 tin/lead plating
- Beryllium copper alloy 6-fingered collet contact w/ 10µ" (0.25µm) gold plating
- Contact current: 3A
- Insulation resistance: 10,000MΩ @ 500VDC
- Withstanding voltage: 1000VRMS
- Operating temp.: -67°F to 257°F (-55°C to 105°C)
- Center pins: 291493CM/291830CM – 0.300"; 295216CM/295259CM – 0.600"
- Suggested PCB hole size: 0.030" (0.76mm) Dia.



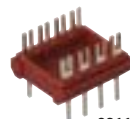
### Vertical Mount

Part No.	Product No.	Pins	L"xW"	1	10	100
291493CM	14-C280-10	14	0.95 x .40	\$3.09	\$2.49	\$1.85
291830CM	16-C280-10	16	1.05 x .40	3.29	2.65	1.99
295216CM	32-C182-10	32	1.89 x .70	5.55	4.49	3.85
295259CM	40-C182-10	40	2.29 x .70	7.05	5.69	4.89

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

## ARIES DIP Headers and Header Covers



291119CM



291451CM

- Standard cover/body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon

### Series 600 Headers w/ Coined Contacts

- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temp.: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads

Part No.	Product No.	Pos.	*W (in.)	1	10	100
291119CM	08-600-10	8	0.300	\$1.09	\$.96	\$.79
291311CM	14-600-10	14	0.300	1.55	1.37	1.11
291573CM	16-600-10	16	0.300	1.69	1.49	1.22
291872CM	18-600-10	18	0.300	1.89	1.67	1.35
291944CM	20-600-10	20	0.300	2.05	1.79	1.45
291995CM	24-600-10	24	0.600	2.49	2.19	1.79
295128CM	28-600-10	28	0.600	2.89	2.55	2.06

\* Center to center pin width

### Series 650 Header Covers

Part No.	Prod. No.	Pos.	*Ht. (in.)	1	10	100
291127CM	08-650-10	8	0.125	\$.48	\$.395	\$.335
291451CM	14-650-20	14	0.375	.....	.53	.44 .36
291653CM	16-650-10	16	0.125	.....	.52	.43 .36
291661CM	16-650-20	16	0.375	.....	.52	.43 .36
291881CM	18-650-10	18	0.125	.....	.61	.50 .41
291952CM	20-650-10	20	0.125	.....	.60	.50 .41
292007CM	24-650-10	24	0.125	.....	.67	.56 .45
292023CM	24-650-20	24	0.375	.....	.79	.68 .51
295136CM	28-650-10	28	0.125	.....	.87	.74 .61

\* Max. component height

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RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.





## Row-to-Row DIP Adapter Socket

These sockets allow the use of .300" (7.62mm) center devices when the PCB is drilled on .600" (15.24mm) centers and vice versa.

- Socket body: UL 94-HB glass-filled nylon
- Brass alloy pin body w/ 200µ" (1.27µm) 93/7 tin/lead plating
- Beryllium copper alloy 4-fingered collet contact w/ 30µ" (0.76µm) gold plating
- Contact current: 3A
- Suggested PCB hole size: .035" (.89mm) dia.

### Series 1106396 - .300" to .600" adapter

Part No.	Product No.	Pins	1	10	100
296737CM	1106396-24	24	\$9.69	\$7.39	\$6.79
296745CM	1106396-28	28	10.89	8.29	7.55

### Series 1107254 - .600" to .300" adapter

Part No.	Product No.	Pins	1	10	100
296754CM	1107254-24	24	\$9.69	\$7.39	\$6.79
296762CM	1107254-28	28	10.89	8.29	7.55



## DIP/SOIC to TO Adapter

8-pin DIP socket or 8-pin SOIC footprint on top and a circular 8-pin TO can male footprint at the bottom. ICs now available only in 8-pin DIP or SOIC can be readily mounted on boards having TO thru-hole footprints without having to redesign the board.

- Board thickness: .062"
- Male pin: brass alloy with 200µ" tin plating
- Suggested PCB hole size: .028" Dia.

### 323272CM: DIP to TO adapter

- Socket body: black UL 94V-0
- Female pin: brass alloy with 10µ" gold plating
- Female pin contact: beryllium copper with 10µ" gold plating
- Accepts leads .015" to .025" Dia.;
- .100" to .125" long • Current rating: 3A
- Dimensions: 0.4"L x 0.4"W x 0.23"H

### 323264CM: SOIC to TO adapter

- 1 oz. copper traces on both sides • Size: 0.375"Dia.

Part No.	Product No.	1	10	100
323272CM	1109522	\$8.35	\$7.89	\$7.49
323264CM	1109814	11.09	10.29	9.85



## PLCC-to-DIP Adapter with Socket

### Series 653000

- Converts PLCC packaged ICs to DIP footprints
- Adapter body: FR-4; .062" (1.58mm) thick with 1 oz. minimum copper traces
- Brass alloy solder tail pins w/ 200µ" (5.08µm) 93/7 tin/lead • Current rating: 1A
- Center pins: .600" (15.24mm) • Width: .705"
- Suggested PCB hole size: .028" (.71mm) Dia.

Part No.	Product No.	Pos.	Length	1	10	100
295152CM	28-653000-10	28	1.4"	\$23.59	\$23.49	\$23.39
295195CM	32-653000-10	32	1.6"	35.65	32.65	27.05



## High Temp. Universal Zero Insertion DIP Test

### Series X55X

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature: -10: 221°F (105°C) – tin plating -11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS
- Beryllium copper contact plating
- Stainless steel handle • Contact current: 1A
- Insulation resistance: 1000MΩ
- Dielectric withstanding voltage: 1000VAC
- Center pins: 0.600" (15.24mm)

Part No.	Product No.	Pins	L" x W"	1	10	100
292058CM	26-6554-11	26	1.3 x 0.9	\$10.95	\$9.59	\$9.55
295161CM	28-6554-11	28	1.4 x 0.9	11.85	10.39	10.25
295208CM	32-6554-11	32	1.6 x 0.9	13.15	11.49	11.39
295233CM	40-6554-11	40	2.0 x 0.9	15.69	13.79	13.69
103991CM	24-6554-10	24	1.8 x 0.9	7.49	6.79	5.99
104002CM	28-6554-10	28	2.0 x 0.9	8.45	7.39	7.15
104011CM	32-6554-10	32	2.1 x 0.9	9.95	8.49	8.29
104029CM	40-6554-10	40	2.5 x 0.9	11.25	9.80	9.45



## Series 526 Low Profile ZIF Socket

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Zinc alloy cam
- Contact current: 2A
- Contact resistance: 10mΩ max.
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm)
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" (0.89mm) Dia.

Part No.	Product No.	Pins	L" x W"	1	10	100
296789CM	24-526-10	24	1.45 x .75	\$5.65	\$5.19	\$4.39
102744CM	28-526-10	28	1.64 x .75	5.49	4.99	4.49
102752CM	40-526-10	40	2.24 x .75	7.35	6.65	5.89



## Machine Contact Single- In-Line Female Sockets

- Machine tooled • Single row
- Solder tail and wire wrap

Part No.	Description	1	10	100	500
102200CM	10-pin	\$ .25	\$ .22	\$ .20	\$ .18
78641CM	30-pin	.89	.80	.68	.61
175920CM	36-pin	1.19	1.09	.97	.87
101282CM	20-pin WW2	1.49	1.35	1.09	.85
104053CM	30-pin WW3	1.95	1.75	1.49	1.35

† Lead length: .435" (2) \* Lead length: .575" (3)

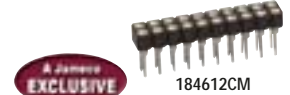
### Other Manufacturers — Great Deals

192840CM	Single x 11-pin	\$ .44	\$ .40	\$ .32	\$ .24
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## Machine Contact Dual- In-Line Female Sockets

- 0.100" centers
- Solder tail contact: .114"L
- Pin sleeve: tin
- Contact clip: gold

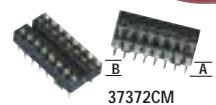


Part No.	Cross Ref. No.	Pins	1	10	100
212855CM	SA101000	10	\$ .29	\$ .23	\$ .21
212863CM	SA121000	12	.30	.28	.25
212871CM	SA141000	14	.35	.33	.30
212880CM	SA161000	16	.40	.37	.34
212898CM	SA181000	18	.45	.42	.38
184612CM	SA201000	20	.50	.46	.42
212901CM	SA221000	22	.55	.51	.47
212919CM	SA241000	24	.60	.56	.51
212927CM	SA321000	32	.80	.74	.68
212935CM	SA481000	48	1.20	1.11	1.01



## Dual Wipe Solder Tail Low-Profile Sockets

- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Thru-hole lead length: .140" (A) • Body ht.: .188" (B)
- Minimum order 10 pieces



Part No.	Cross Ref. No.	Pins	Width (in.)	10	100	1000
112192CM	6LPD	6	0.3	\$ .09	\$ .06	\$ .05
112205CM	8LPD	8	0.3	.09	.08	.07
112213CM	14LPD	14	0.3	.10	.075	.05
112221CM	16LPD	16	0.3	.13	.115	.095
112230CM	18LPD	18	0.3	.16	.14	.12
307977CM	22LPD	22	0.3	.14	.14	.12
112281CM	24SLPD	24	0.3	.14	.13	.09
112265CM	24LPD	24	0.6	.158	.129	.089
112299CM	28SLPD	28	0.3	.21	.19	.17
112301CM	32LPD	32	0.6	.26	.23	.173
112310CM	40LPD	40	0.6	.26	.23	.19
167396CM	48LPD	48	0.6	.26	.23	.21

### Other Manufacturers — Great Deals

#### Single & Dual Wipe Low-Profile Sockets

Part No.	Cross Ref. No.	Pins	Width (in.)	10	100	1000
51570CM	8LP	8	0.3	\$ .063	\$ .054	\$ .045
37161CM	14LP	14	0.3	.081	.063	.054
37372CM	16LP	16	0.3	.09	.081	.054
38113CM	18LP	18	0.3	.099	.084	.063
38607CM	20LP	20	0.3	.108	.09	.063
112248CM	20LPD	20	0.3	.153	.13	.098
39132CM	22LP	22	0.4	.108	.10	.095
39378CM	24SLP	24	0.3	.153	.13	.098
39335CM	24LP	24	0.6	.16	.15	.11
112264CM	24LPD	24	0.6	.158	.136	.122
40301CM	28LP	28	0.6	.171	.117	.081
112272CM	28LPD	28	0.6	.19	.16	.14
41110CM	40LP	40	0.6	.171	.153	.108
112326CM	64LPD	64	0.9	.162	.139	.104

† Dual Wipe

We're committed to providing you with the best service in the industry.

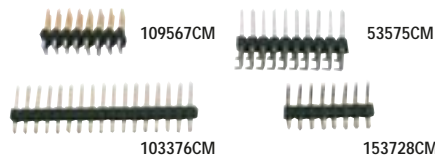
JAMECO ValuePro

## .100" Male Headers (Gold)

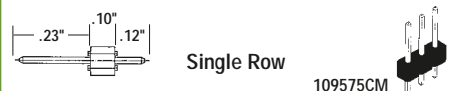
- Solder to PC boards for instant plug-in access via shorting blocks, pg 143
  - Insulator: UL94V-0 polyester
  - Snap apart to fit your application
  - Contact material: phosphor bronze
  - Current rating: 1 amp • Contact area: gold
  - Temperature range: -55°C to +120°C
  - .025" square posts on a .100" x .100" matrix
  - Use with crimp connector housing, pg 144
- \*Minimum order 10 pieces

Quantity SAVE

A Jameco EXCLUSIVE

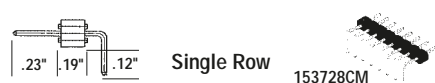


## .100" Straight Male Headers



Part No.	Ref. No.	Cross	Contacts	1	10	100	1000
108337CM	SMH02	2	..... *	\$ .16	\$ .14	\$ .13	
109575CM	SMH03	3	..... *	.17	.15	.135	
117559CM	SMH04	4	..... *	.17	.15	.135	
153699CM	SMH06	6	..... *	.17	.15	.135	
153701CM	SMH08	8	..... *	.20	.17	.15	
103392CM	SMH10	10	..... *	.18	.14	.10	
103376CM	SMH17	17	..... *	.16	.14	.13	
103368CM	SMH20	20	..... *	.25	.23	.21	
202825CM	SMH22	22	..... *	.25	.233	.21	
103350CM	SMH25	25	..... *	.25	.21	.16	
103341CM	SMH30	30	..... .35	.31	.28	.25	
68339CM	SMH36	36	..... .42	.38	.34	.29	
160881CM	SMH40	40	..... .49	.44	.40	.36	

## .100" Right Angle Male Headers



Part No.	Ref. No.	Cross	Contacts	1	10	100	1000
153728CM	RMH08	8	.....	\$.45	\$.40	\$.30	\$.25
103270CM	RMH36	36	..... .75	.64	.58	.41	

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## .100" Right Angle Male Headers



Part No.	Ref. No.	Cross	Contacts	1	10	100	1000
203908CM	923804DR	4	.....	\$.38	\$.34	\$.31	\$.28
203916CM	923806DR	6	.....	.49	.44	.30	.24
203924CM	923808DR	8	.....	.49	.44	.35	.26
203932CM	923810DR	10	.....	.59	.53	.48	.39
203941CM	923812DR	12	.....	.59	.53	.42	.31
203959CM	923814DR	14	.....	.65	.58	.47	.34
203967CM	923816DR	16	.....	.65	.59	.53	.43
203975CM	923818DR	18	.....	.75	.68	.59	.43
53575CM	923820DR	20	.....	.65	.59	.53	.47
203983CM	923822DR	22	.....	.65	.58	.47	.34
203991CM	923824DR	24	.....	.65	.58	.47	.34
53583CM	923826DR	26	.....	.69	.62	.51	.36
204003CM	923828DR	28	.....	.69	.62	.50	.37
204011CM	923830DR	30	.....	.75	.68	.54	.40
204020CM	923832DR	32	.....	.75	.68	.54	.40
204038CM	923834DR	34	.....	.85	.76	.69	.50
204046CM	923836DR	36	.....	.75	.68	.61	.50
204054CM	923838DR	38	.....	.75	.68	.54	.40
53604CM	923840DR	40	.....	.85	.75	.57	.50
53612CM	923850DR	50	.....	.85	.75	.57	.50
103413CM	923872DR	72	.....	1.15	.99	.89	.75
139563CM	923880DR	80	.....	1.35	1.19	1.09	.99

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## .100" Straight Male Headers



Part No.	Ref. No.	Cross	Contacts	1	10	100	1000
115027CM	923804DS	4	..... *	\$ .10	\$ .09	\$ .07	
115035CM	923806DS	6	..... *	.18	.16	.14	
109516CM	923808DS	8	..... *	.18	.16	.14	
67820CM	923810DS	10	..... *	.18	.16	.14	
203810CM	923812DS	12	..... .60	.55	.49	.44	
118455CM	923814DS	14	..... .45	.40	.36	.33	
109567CM	923816DS	16	..... .55	.49	.45	.39	
203828CM	923818DS	18	..... .65	.59	.55	.47	
53479CM	923820DS	20	..... .59	.55	.48	.43	
203836CM	923822DS	22	..... .70	.63	.50	.38	
203844CM	923824DS	24	..... .70	.65	.59	.49	
203852CM	923826DS	26	..... .75	.69	.55	.39	
203879CM	923830DS	30	..... .75	.69	.61	.50	
203861CM	923832DS	32	..... .75	.68	.54	.40	
53516CM	923834DS	34	..... .75	.69	.61	.55	
203887CM	923836DS	36	..... .99	.89	.79	.43	
203895CM	923838DS	38	..... .89	.80	.72	.54	
53559CM	923850DS	50	..... .60	.55	.49	.45	
68574CM	923860DS	60	..... .70	.65	.59	.55	
103405CM	923872DS	72	..... .85	.75	.69	.59	
117196CM	923880DS	80	..... .90	.80	.75	.65	

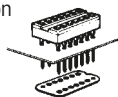
## Other Manufacturers — Great Deals

53495CM	923826DS	26	.....	\$.32	\$.29	\$.23	\$.172
53532CM	923840DS	40	.....	.59	.53	.42	.31

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping
- Plastic
- Can easily write location, part number or function



Part No.	Prod. No.	Pins	Width (in.)	1	10	100	500
51561CM	8ID	8	0.3	\$.44	\$.35	\$.30	\$.28
37145CM	14ID	14	0.3	.35	.31	.28	.24
37356CM	16ID	16	0.3	.29	.26	.25	.23
38105CM	18ID	18	0.3	.49	.45	.39	.35
38586CM	20ID	20	0.3	.55	.49	.45	.41
39327CM	24ID	24	0.6	.59	.52	.43	.38
40299CM	28ID	28	0.6	.65	.55	.47	.45
41101CM	40ID	40	0.6	.89	.79	.69	.65

## Level 1, 2 & 3 Wire Wrap Sockets

- Contact plating/leads: gold (WW) or tin (TWW); dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .315" (L1); .438" (L2); .638" (L3)
- Body height: .300" (A)

CA

37234CM

Blue Part No. = Limited Quantity Available

NEW

## Gold (WW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37234CM	14WW2	14	0.3	\$1.49	\$1.35	\$1.19	\$1.09
37480CM	16WW2	16	0.3	1.75	1.59	1.43	1.29
38674CM	20WW2	20	0.3	2.25	1.99	1.82	1.65
39395CM	24WW2	24	0.6	1.85	1.63	1.43	1.33
40352CM	28WW2	28	0.6	2.19	1.99	1.75	1.60

## Tin (TWW)

Part No.	Prod. No.	Pins	W (in.)	1	10	100	500
37218CM	14TWW2	14	0.3	\$1.15	\$1.03	\$.93	\$.84
37437CM	16TWW2	16	0.3	.99	.89	.73	.67
87637CM	18TWW2	18	0.3	1.09	.98	.89	.88
75380CM	20TWW2	20	0.3	1.69	1.52	1.35	1.23
75416CM	24TWW2	24	0.6	1.49	1.35	1.09	.79
41180CM	40TWW2	40	0.6	2.49	2.15	1.79	1.59

## Other Manufacturers — Great Deals

196832CM	14WW1	14	0.3	\$.105	\$.94	\$.76	\$.57
196841CM	14TWW3	14	0.3	.82	.74	.59	.44

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## Level 3 Machine Tooled Wire Wrap Sockets

- Contact plating: gold
- Tin-plated leads
- Contact resistance: <5mΩ
- Dielectric withstanding voltage: 300Vrms
- Material: beryllium copper or phosphor bronze
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Insulation resistance: greater than 1000MΩ
- Sleeve material: brass • Body height: .115" (A)
- Thru-hole lead length: .365" (L2); .515" (L3)



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Blue Part No. = Limited Quantity Available

Part No.	Cross	Pins	Width	1	10	100	500
	Ref. No.		(in.)				
94473CM	8MSWW3⊕	8	0.3	\$ .53	\$ .46	\$ .38	\$ .34
62050CM	14MSWW3⊕	14	0.3	.93	.80	.67	.60
37410CM	16MSWW3⊕	16	0.3	1.09	.93	.78	.69
94481CM	18MSWW3⊕	18	0.3	1.09	.93	.78	.74
38631CM	20MSWW3⊕	20	0.3	1.33	1.14	.95	.86
185324CM	22MSWW3⊕	22	0.3	1.39	1.25	1.06	.97
105371CM	24MSWW3⊕	24	0.3	1.55	1.32	1.11	.99
94490CM	24MSWW3⊕	24	0.6	1.55	1.31	1.11	1.03
200715CM	28MSWW3⊕	28	0.3	1.69	1.43	1.19	1.07
40336CM	28MSWW3⊕	28	0.6	1.69	1.43	1.19	1.11
117057CM	32MSWW3⊕	32	0.6	2.19	1.99	1.79	1.49
94502CM	40MSWW3⊕	40	0.6	2.65	2.28	1.90	1.71
200723CM	48MSWW3⊕	48	0.6	2.99	2.69	2.39	2.15
200731CM	64MSWW3⊕	64	0.9	2.59	2.37	2.15	1.96

## Other Manufacturers — Great Deals

192831CM	224MSWW3	22	0.4	\$.54	\$.49	\$.45	\$.40
313656CM	24MSWW3	24	0.6	1.19	1.05	.88	.79



## JAMECO ValuePro Machine Tooled Solder Tail Low-Profile Sockets

- Contact plating: gold
- Tin-plated leads
- Contact current: 3A
- Multiple contact elements
- Material: beryllium copper or phosphor bronze
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Thru-hole lead length: .177" (A) • Body ht.: .117" (B)

Part No.	Cross Ref. No.	Pins	Width (in.)	1	10	100	1000
167003CM	6MLPT⊕	6	0.3 .....	\$.29	\$.26	\$.18	\$.16
51625CM	8MLP⊕	8	0.3 .....	.25	.22	.19	.17
37196CM	14MLP⊕	14	0.3 .....	.42	.38	.33	.30
37401CM	16MLP⊕	16	0.3 .....	.47	.43	.37	.34
65584CM	18MLP⊕	18	0.3 .....	.55	.49	.43	.39
38623CM	20MLP⊕	20	0.3 .....	.59	.55	.45	.39
39386CM	24SMLP⊕	24	0.3 .....	.65	.59	.53	.44
39351CM	24MLP⊕	24	0.6 .....	.65	.59	.53	.44
114411CM	28SMLP⊕	28	0.3 .....	.85	.75	.65	.55
40328CM	28MLP⊕	28	0.6 .....	.83	.75	.65	.59
105380CM	32MLP⊕	32	0.6 .....	.95	.85	.75	.65
41136CM	40MLP⊕	40	0.6 .....	1.19	1.05	.79	.69
42059CM	48MLP⊕	48	0.6 .....	1.29	1.16	1.04	.89
200707CM	64MLP⊕	64	0.9 .....	1.35	1.25	1.15	.99

### Other Manufacturers — Great Deals

662565CM	6MLP	6	0.3	.....	\$.25	\$.22	\$.16	\$.14
662573CM	8MLP	8	0.3	.....	.22	.20	.17	.15
662611CM	16MLP	16	0.3	.....	.42	.38	.33	.30
192209CM	22SMLP	22	0.4	.....	.53	.48	.43	.39
662359CM	24MLP-GLD	24	0.6	.....	.59	.49	.39	.25
184680CM	28SMLP	28	0.4	.....	.80	.72	.58	.43
662629CM	40MLP	40	0.6	.....	1.09	.95	.69	.62

## JAMECO ValuePro .100" and 2mm Shorting Blocks



- 22023CM (open) 112432CM (closed) 152670CM (closed)
- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color codes strip line plugs • Mate with male headers, left
- Pin material: phosphor bronze

Open: open on top to allow for a test point  
 Closed: closed top

119263CM: 2mm shorting block (for disk drives)

- Minimum order 10 pieces

Part No.	Description	10	100	1000
22023CM	Top open, black (.100")	\$.12	\$.09	\$.06
119263CM	Top open, black (2mm)	..15	.13	.11
112424CM	Top open, blue (.100")	..133	.099	.067
112416CM	Top open, red (.100")	.....12	.09	.06
19140CM	Top closed, black (.100")	.....12	.09	.06
112441CM	Top closed, blue (.100")	.....12	.09	.06
112432CM	Top closed, red (.100")	.....20	.18	.12
152670CM	Top closed, black (.100")	.....19	.15	.12

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

▲ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## AMP DIP Sockets

### Dual Leaf Straight Solder Tail

- Accepts .008" to .014" thick IC leads
- Housing: glass filled thermoplastic, 94V-0 rated, black
- Contact: phosphor bronze with 15μ" gold plate

Part No.	Product No.	Pos.	Width	1	10	100
524576CM	2-640357-4	14	0.3 .....	\$ .69	\$.627	\$.57
524584CM	2-640358-4	16	0.3 .....	.63	.57	.52

### Economy Ladder Style

- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating

\* Prepackaged: please order in increments of 10 or 100

Part No.	Product No.	Pos.	Width	1	10	100
526281CM	390261-1	6	0.3 .....	* .05	\$.045	
683091CM	1-390261-1	6	0.3 .....	.20	.067	.062
526299CM	390261-2	8	0.3 .....	* .068	.066	
683104CM	1-390261-2	8	0.3 .....	.20	.071	.066
526192CM	390261-3	14	0.3 .....	* .081	.074	
683112CM	1-390261-3	14	0.3 .....	.20	.087	.082
526205CM	390261-4	16	0.3 .....	* .085	.077	
683121CM	1-390261-4	16	0.3 .....	.20	.093	.087
526213CM	390261-5	18	0.3 .....	* .098	.093	
683139CM	1-390261-5	18	0.3 .....	.20	.124	.116
526221CM	390261-6	20	0.3 .....	* .102	.097	
683147CM	1-390261-6	20	0.3 .....	.20	.141	.129
683163CM	1-390261-8	24	0.3 .....	.20	.169	.152
526230CM	390262-1	24	0.6 .....	* .153	.143	
683198CM	1-390262-1	24	0.6 .....	.20	.179	.175
683201CM	1-390262-2	28	0.6 .....	.20	.179	.175
526248CM	390261-9	28	0.3 .....	.20	.176	.168
683171CM	1-390261-9	28	0.3 .....	.20	.195	.19
526256CM	390262-2	28	0.6 .....	* .176	.168	
526272CM	390262-5	40	0.6 .....	.22	.21	.20
683227CM	1-390262-5	40	0.6 .....	.29	.263	.261

### Economy Over-the-Component Style

Part No.	Product No.	Pos.	Width	1	10	100
526264CM	390263-2	32	0.6 .....	\$ .21	\$ .201	\$ .193
683286CM	1-390263-2R	32	0.6 .....	.20	.189	.188

### 500/800 Series Machined Contact

- Precision four fingered contact provides concentric funnel entry for easy flat and round lead insertion
- Non-wicking, closed bottom sleeve gives 100% protection against flux and solder contamination
- Contact resistance: 10mΩ max.
- Insulation resistance: 5000MΩ @ 500VDC
- Dielectric withstanding voltage: 1000Vrms
- Insulator: UL94V-0 rated thermoplastic polyester
- Sleeve: machined brass / formed copper
- Contact: beryllium copper • Contact rating: 3A
- Contact plating: gold • Sleeve plating:

### Solid Insulator (500 Series)

Part No.	Product No.	Pos.	Width	1	10	100
619971CM	508-AG10D♣	8	0.3 ...	\$3.49	\$3.16	\$2.62
619989CM	514-AG10D♣	14	0.3 ....	4.19	3.78	3.14
619997CM	514-AG10D-ES♣	14	0.3 ....	3.29	2.82	2.54
620007CM	514-AG11D♣	14	0.3 ....	3.39	3.08	2.08
620015CM	516-AG10D♣	16	0.3 ....	5.19	5.16	4.03
620023CM	516-AG11D♣	16	0.3 ....	3.65	3.32	2.75
620031CM	516-AG-11D-ES♣	16	0.3 ....	1.69	1.54	1.27

### Open Insulator (800 Series)

Part No.	Product No.	Pos.	Width	1	10	100
620285CM	814-AG11D♠	14	0.3 ...	\$3.39	\$3.08	\$2.55
620293CM	816-AG11D♠	16	0.3 .....	3.65	3.32	2.75

## JAMECO ValuePro PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minimum
- Temperature surface mount: -55°C / +170°C

Part No.	Cross Ref. No.	Pins	1	10	50	100
152688CM	PLCC44D	44 .....	\$.75	\$.68	\$.61	\$.55
307951CM	850-68-99ST	68 .....	.86	.78	.69	.66

### Other Manufacturers — Great Deals

152696CM	PLCC68D	68	.....	\$.34	\$.31	\$.28	\$.26
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## JAMECO ValuePro PLCC Solder Tail Sockets

- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Thru-hole lead length: .125"
- Body height: .375"

Part No.	Cross Ref. No.	Pins	1	10	50	100
71263CM	G1P428	28	..... \$0.56	\$0.44	\$0.34	\$0.29
71811CM	G1P432	32	..... .55	.48	.41	.39
71618CM	G1P444	44	..... 1.15	.99	.81	.69
72442CM	G1P452	52	..... .99	.79	.65	.55
71968CM	G1P468	68	..... 1.15	.99	.89	.79
71976CM	G1P484	84	..... 1.29	1.16	1.04	.88

### Other Manufacturers — Great Deals

687703CM	821574-1	68	.....	\$1.03	\$.93	\$.84	\$.75
687691CM	821573-1	84	.....	1.16	1.09	.98	.85

## AMP PLCC Socket Assemblies

- SMT & thru-hole contacts
- Normal & low insertion rates

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete AMP PLCC Socket Offering at [www.jameco.com/Prod/AMPPLCC](http://www.jameco.com/Prod/AMPPLCC)

## JAMECO ValuePro USB-A & B Connectors and Pins

### 1.0 and 2.0



- 161023CM (USB-A)
- 174060CM (USB-B)
- 230965CM
- 174060CM: USB-A & B (2.0) Male Connector
- 3-part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724CM, see web) required per USB connector
- 161023CM/230957CM:
- USB-A & B (1.0 & 2.0) Female Connectors
- PC mount right angle with board locks
- 230965CM: Male Crimp Pin
- Pin for P/N 174060CM (4 required) • Contact: gold
- Use P/N 159265CM for crimping tool, pg 299
- \* Minimum order 10 pieces

Part No.	Description	1	10	100	1000
161023CM	USB-A 1.0 conn. (F)	\$.79	\$.69	\$.62	\$.56
174060CM	USB-B 2.0 conn. (M)	..79	.69	.62	.56
230957CM	USB-B 2.0 conn. (F)	..99	.85	.55	.42
230965CM	Crimp pin (M) for 2.0	.....	* .125	.09	.065





## .050" (1.27mm) 168-Position DIMM Socket

- Accepts JEDEC MO-161 modules
- 662813CM/662821CM/662830CM/662848CM: beveled metal pin, forklock PCB retention
- 668529CM/668545CM/668537CM: press-fit plastic peg PCB retention
- Contact resistance: 30mΩ max.
- Withstanding volt.: 500VAC
- Current (max.): 1.0A
- Contact: phosphor bronze
- Under plating: nickel
- Insulation resistance: 1000MΩ min
- Contact plating: gold over palladium nickel
- Voltage (max.): 100V
- UL94V-0
- Durability: 25 cycles (min.)
- Housing: liquid crystal polymer
- Plating tail: tin/lead
- Temperature range: -40°C to +85°C



Part No.	Prod. No.	Description	Function Key	Voltage Key	1	10	25	50
662813CM	71736-0001	DRAM, 3.3V	Detail Y	Detail Y	\$3.69	\$3.43	\$3.10	\$2.79
662821CM	71736-0002	DRAM, 5.0V	Detail Y	Detail Z	3.69	3.43	3.10	2.79
662830CM	71736-0005	Unbuff., 5.0V	Detail X	Detail Z	3.35	3.09	2.78	2.57
662848CM	71736-0006	SDRAM, 3.3V	Detail Z	Detail Y	3.69	3.43	3.10	2.79
668529CM	71251-0001	DRAM, 3.3V	Detail Y	Detail Y	3.75	3.56	3.32	3.13
668545CM	71251-0002	Unbuff., 3.3V	Detail X	Detail Y	4.45	4.27	4.08	3.71
668537CM	71251-0016	SDRAM, 3.3V	Detail Z	Detail Y	4.45	4.27	4.08	3.71



## .050" (1.27mm) 184-Position DDR DIMM Sockets

- Current (max.): 1.0A
- Voltage (max.): 125V; except for 668502CM/668511CM 50V
- Voltage key: 2.5V, left
- Withstanding voltage: 500VAC
- Contact resistance: 30mΩ max.; except for 668511CM: 40mΩ max.
- Insulation resistance: 1000MΩ min.
- Housing: high temp. thermoplastic
- Contact: copper alloy; except for 668502CM: phosphor bronze
- Plating contact: .38μm (15μ") gold
- Plating tail: tin, lead free • UL94V-0
- Under plating: nickel • Durability: 25 cycles min.
- Temperature range: -10°C to +85°C



**NEW**

Part No.	Prod. No.	Description	1	10	25
668511CM	87623-2001	25° LP	\$7.69	\$7.39	\$7.10
668502CM	87636-2002	Vertical	1.85	1.76	1.67
668490CM	87655-0004	Rt. angle	12.75	12.19	11.63



## .050" (1.27mm) Pitch 72-Position SIMM Sockets

- Left polarization
- Tin contact plating
- Accepts JEDEC MO-116 modules
- Current (max.): 1.0A • UL94V-0
- Voltage (max.): 250V • Durability: 25 cycles min.
- PCB retention: press-fit plastic peg
- Withstanding voltage: 1000VAC
- Contact resistance: 30mΩ max.
- Insulation resistance: 5000MΩ min.
- Housing: liquid crystal polymer
- Contact: phosphor bronze
- Contact plating (plating thickness): gold (0.76μm; 30μ"); tin/lead (5μm; 200μ")
- Temperature range: -40°C to +85°C



Part No.	Prod. No.	Description	1	10	25
668481CM	15-82-0775	Vert.	\$2.99	\$2.89	\$2.80
669791CM	15-82-0778	Vert.	4.09	3.76	3.42
669804CM	15-82-0678	22.5° low prof.	4.05	3.77	3.36
670750CM	15-82-0649	40° low prof.	4.29	3.71	3.37
670784CM	15-82-1538	Rt. angle	7.25	6.69	6.07

See page 299 for crimping tools



## .100" Low Profile Keyed Shrouded Header & Connector CD-ROM 4-Pin Headers and Connector



- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000V AC/ 1 minute
- Pin material: tin-plated brass
- Recommended crimp tool P/N 99442CM, pg 299

\* Prepackaged: order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
152741CM	Straight header	\$ .45	\$ .39	\$ .35	\$ .29
152725CM	Rt. angle header	.55	.50	.45	.40
152733CM	Single w/ latch	.43	.37	.22	.16
181673CM	Female pins	*	.11	.08	.06

† P/N 152733CM requires 4 pins (P/N 181673CM)



## SIMM Socket

Quantity SAVE

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts

Part No.	Description	1	10	100	500
100301CM	Single x 30-pin, vert.	\$ .59	\$ .53	\$ .42	\$ .32

## AMP USB Connectors

- Wire to board connectors
- Series A & B
- 4-position
- Right angle

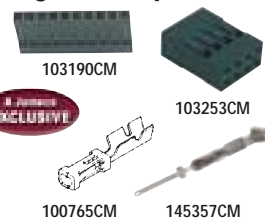
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See Our Complete AMP USB Series Offering at [www.Jameco.com/Prod/AMPUSS](http://www.Jameco.com/Prod/AMPUSS)



## .100" Non-Polarized Connector Housings & Crimp Pins

- Mates with 0.025" square post on pattern of 0.100" centers (male headers, see pg 142)
- Current rating: 1A
- Plastic
- Pin material: brass/tin plated
- Pin wire gauge: 26-22 AWG
- Temperature rating: -55°C to +105°C
- Use 159265CM pin crimper, pg 299 and 100765CM, below



\* Minimum order 10 pieces

### Single Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
100811CM	SCH2	2	\$.26	\$.23	\$.21	\$.17
157382CM	SCH3	3	.27	.24	.22	.18
100802CM	SCH4	4	.28	.25	.23	.19
163686CM	SCH5	5	.30	.27	.25	.22
103211CM	SCH6	6	.34	.31	.27	.21
103202CM	SCH8	8	.39	.35	.29	.25
103190CM	SCH10	10	.42	.39	.36	.31
103181CM	SCH20	20	.49	.45	.39	.35
103157CM	SCH36	36	.49	.45	.39	.35

### Double Row

Part No.	Cross Ref.	Contacts	1	10	100	1000
103253CM	DCH8	8	\$.59	\$.53	\$.45	\$.39
157420CM	DCH10	10	.69	.62	.55	.49
157438CM	DCH14	14	.73	.71	.69	.59
103237CM	DCH16	16	.79	.71	.64	.58
103229CM	DCH20	20	.99	.89	.79	.69
157462CM	DCH40	40	1.09	.99	.89	.75
157471CM	DCH50	50	.65	.59	.53	.48

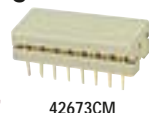
### Crimp Pins for Single/Double Row Housings

Part No.	Cross Ref.	Contacts	1	10	100	1000
100765CM	FCH1	Female pin	* \$ .14	* \$ .11	* \$ .07	
145357CM	MCH1	Male pin	* .15	* .135	* .12	



## .100" IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Plastic with gold-plated contacts
- Uses 28 AWG flat ribbon cable, pg 104
- Current rating: 1 amp



Part No.	Cross Ref.	Width	Contacts	1	10	100	500
42657CM	609-14	0.3"	14	\$.49	\$.40	\$.35	\$.29
42673CM	609-16	0.3"	16	.55	.45	.35	.30
104096CM	609-20	0.3"	20	.69	.62	.55	.49
42690CM	609-24	0.6"	24	.79	.71	.64	.59
99670CM	609-28	0.6"	28	.89	.80	.72	.59
42711CM	609-40	0.6"	40	1.15	1.05	.95	.85

We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

**JAMECO ValuePro** **Card-Edge Connectors**

- Fits all PC boards
- 0.054" to 0.070" thick

**Solder Eyelet 0.140" Spacing Between Rows**

- Contact centers: 0.156" • With mounting ears

Part No.	Position	Contacts	1	10	100
39116CM	22/44	Gold	\$2.95	\$2.65	\$2.38

**Solder Tail 0.200" Spacing Between Rows**

- Contact centers: 0.100"
- Without mounting ears

Blue Part No. = Limited Quantity Available 40694CM

Part No.	Position	Contacts	1	10	100
40694CM	31/62	Tin (PC/AT)	\$0.93	\$0.82	\$0.65
42091CM	49/98	Tin (AT)	\$0.89	\$0.59	\$0.39

**AMP CHAMP™ Lok IDC Connectors**

- Plug/screw lock
- Plug/bail lock
- Receptacle/screw or bail lock
- 50 position only

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Amp Champ-Lok Connector Offering at [www.Jameco.com/Prod/AMPCHAMPLok](http://www.Jameco.com/Prod/AMPCHAMPLok)

**AMP EUROCARD™**

**Types R & C**

- Right angle with solder posts
- With and without boardlocks

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See Our Complete AMP EUROCARD Series Offering at [www.Jameco.com/Prod/AMPEUROCARD](http://www.Jameco.com/Prod/AMPEUROCARD)

**CK Smart Card Connectors**

**CCM01 - Full Size Friction**  
**CCM02 - Full Size Landing**  
**CCM03 - SIM/SAM Holder**  
**CCM05 - Smartmedia™ SSFDC**

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our C&K Connector Series Offering at [www.Jameco.com/Prod/CKSmartCon](http://www.Jameco.com/Prod/CKSmartCon)

**30-Day Money-Back Guarantee**

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

Details on page 330.

## Cinch CARDCON™ Commercial Edge Connector

**.156" (3.96mm) Density DIP Solder**

- DIP solder tails single readout and double readout on 0.200" (5.08mm) row centers
- Bifurcated semi-bellows contacts for added reliability
- Insulation material: UL94V-0 rated glass filled polyester, black
- Contact material: spring brass
- Contact plating: 10μ" selective gold over 30μ" nickel in contact area, tin on tails
- Withstanding voltage: 1800VACrms
- Current rating: 5A contact resistance: 6mΩ max.
- Insulation resistance: 5000MΩ min

**NEW**

Part No.	Prod. No.	Positions	1	25	50	100
423100CM	50-20SN-1	10/20	\$1.59	\$1.51	\$1.41	\$1.32
423214CM	50-36SN-1	18/36	2.89	2.74	2.27	2.00
423257CM	50-44SN-1	22/44	3.65	3.48	2.90	2.28
423329CM	50-50SN-1	25/50	2.99	2.79	2.62	2.47

## Cinch CARDCON™ Commercial Edge Connector

**.100" (2.54mm) Density DIP Solder**

- DIP solder tails on 0.200" (5.08mm) row centers double readout
- Bifurcated semi-bellows contacts for added contact reliability
- 0.128" (3.25mm) mounting holes
- Insulation material: UL94V-0 rated glass filled polyester, black
- Contact material: spring, brass
- Standard contact plating: 10μ" selective gold over nickel, 50μ" nickel in contact area, tin on tails
- Withstanding voltage: 650VACrms
- Current rating: 3A
- Contact resistance: 10mΩ max.
- Insulation resistance: 5000MΩ min

**NEW**

Part No.	Prod. No.	Positions	1	25	50	100
423231CM	50-22SN-11	22/44	\$1.75	\$1.65	\$1.60	\$1.46
423353CM	50-50SN-11	50/100	3.89	3.66	3.43	3.23

## Cinch High Reliability Edge Connector

**.156" (3.96mm) Density Solder Eyelet**

- Solder eyelet, single readout or double readout on 0.200" (5.08mm) row spacing
- Patented bifurcated bellows contacts for added contact reliability
- 0.128" (3.25mm) mounting hole
- Insulation material: Diallyl phthalate, green
- Contact material: phosphor bronze
- Contact plating: 30μ" selective gold over 50μ" copper in contact areas, 5μ" gold on tails
- Withstanding voltage: 1800VACrms
- Current rating: 5A
- Contact resistance: 10mΩ max.
- Insulation resistance: 5000MΩ min.

**NEW**

Part No.	Prod. No.	Positions	1	25	50	100
423003CM	50-30H-30	15/30	\$8.15	\$6.08	\$5.70	\$5.36
423054CM	50-44H-30	22/44	9.59	8.70	7.98	7.10

**10' Fiber Optic Cable**

- 1000μm core jacketed plastic fiber optic cable (10')

Part No.	Product No.	1	10
171272CM	IF-C-E1000	\$6.95	\$6.25

**AMP Fiber Optic Adapters**

**MT-RJ to MT-RJ**

- Suitable for single-mode/multimode MT-RJ plugs

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP Fiber Optic Connector Offering at [www.Jameco.com/Prod/AMPFiberOptic](http://www.Jameco.com/Prod/AMPFiberOptic)

## Molex Fiber Optic Connectors & Adapters

**SC Duplex** **ESCON** **FC/APC**

**SC**

The versatile Molex SC lightwave connector has been designed to NTT-SC standards & is completely compatible with other SC hardware.

**SC Duplex**

Designed to maintain fiber optic cabling polarity in the telecommunication and data communication networks.

**SC/APC**

NTT compliant connector, combines connector design with a precise Angled Physical Contact (APC) ferrule.

**ESCON**

High speed communication interconnect between mainframes and storage devices, peripheral control units and other networks.

**FC/APC**

Combines an NTT-FC connector design with a precise, pre-angled, pre-radiused & pre-polished ferrule.

**ST**

Specially designed for distribution applications & fully compatible with existing ST type hardware.

**STII**

Versatile coupling nut design, which allows the STII connector to provide either standard ST or non-optical disconnect functionality.

**Bezel Adapter Accessories**

Provides many advantages when deploying various fiber optic adapters on equipment front and/or back panels.

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See Our Complete Molex Fiber Optic Offering at [www.Jameco.com/Prod/MolexFiberOptic](http://www.Jameco.com/Prod/MolexFiberOptic)

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## Fiber Optic Backplanes

### HBMT™ MT

Utilizing a standard MT ferrule as the optical interface, the HBMT provides up to 96 fiber interconnects.

### BMT™ MTP

High density solution based on the NTT MT ferrule and MTP push-pull ribbon fiber connector.

### BLC™ LC

Designed to provide a smooth transition from the active devices to the LC based fiber optic network.

### BSC™/BSCII™ SC

Designed to provide a smooth transition from the active devices to the SC based fiber optic network.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



BMT MTP



BSC/BSCII SC

See Our Complete Molex Fiber Optic Offering at [www.Jameco.com/Prod/MolexFiberOptic](http://www.Jameco.com/Prod/MolexFiberOptic)



## Fiber Optic Accessories

### MTP/MPO

Provide reliable high performance interconnects of up to 24 fibers in a small footprint.



SMC

### LC Loopback

Provides a stable and convenient means for testing optical SFP (Small Form-factor Pluggable) and SFF (Small Form Factor) devices.

### SMC

Provide reliable high performance interconnects of up to 12 fibers in a low profile footprint.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Molex Fiber Optic Offering at [www.Jameco.com/Prod/MolexFiberOptic](http://www.Jameco.com/Prod/MolexFiberOptic)



## .100" (2.5mm) Female Header Receptacles

- Gold plated contacts
- 0.1" contact center

Blue Part No. = Limited Quantity Available

### Right Angle Mount (Side Entry)

Part No.	Contacts	Type	1	10	100	500
71159CM	20	Double row	\$1.25	\$1.10	\$0.99	\$0.85

### Vertical Mount (Top Entry)

Part No.	Contacts	Type	1	10	100	500
70754CM	8	Single row	\$0.59	\$0.53	\$0.43	\$0.35
200782CM	12	Single row	.79	.59	.45	.42
308591CM	16	Single row	.58	.48	.31	.243
308566CM	20	Single row	.69	.57	.37	.289
70720CM	16	Double row	.89	.79	.72	.65
70826CM	20	Double row	1.09	.98	.88	.66
105056CM	30	Double row	1.09	.98	.88	.74
111704CM	40	Double (Tin)	1.29	1.15	.99	.89

### Other Manufacturers — Great Deals

454539CM	30	Double row	\$0.99	\$0.89	\$0.80	\$0.67
163862CM	34	Double row	1.05	.94	.85	.71



## .100" Low-Profile Male Shrouded Headers

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Features: UL recognized, CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Contact: phosphor bronze, gold plated
- Use with IDC socket connectors, pg 148

68179CM

### Straight Male Headers

Part No.	Description	1	10	100	1000
67811CM	10-pin	\$0.39	\$0.35	\$0.32	\$0.28
68179CM	16-pin	.44	.40	.35	.32
68291CM	20-pin	.49	.47	.39	.23
68371CM	26-pin	.54	.42	.35	.21
68582CM	34-pin	.79	.65	.46	.31
181104CM	40-pin	.75	.60	.45	.315

### Other Manufacturers — Great Deals

### Right Angle Male Header

Part No.	Description	1	10	100	1000
211182CM	26-pin	\$0.22	\$0.20	\$0.18	\$0.17



## PCB Centronics Connectors



72151CM

72080CM

- Solder-type contacts
- Space between rows: 0.164"
- Space between pins: 0.1"
- Metal body
- PC mount

Part No.	Description	1	10	100
72151CM	36-contact fem., rt angle	\$3.55	\$3.19	\$2.87
72080CM	50-contact fem., rt angle	4.95	4.45	3.95



## IDC Centronics Connector

- Contact material: gold plated phosphor bronze; plastic casing
- Current rating: 1 amp
- Temp. rating: -55°C to +105°C
- Use 73251CM IDC crimping tool, right

Part No.	Description	1	10	100
13848CM	36-pin male	\$1.99	\$1.75	\$1.49



## .100" IDC Plug Connectors

### Double Row

- 0.100" x 0.100" grid
- Plastic
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze
- Use with IDC socket for connectors, pg 148

Part No.	Cross Ref. No.	Contacts	1	10	100
29188CM	P40	40	\$1.95	\$1.75	\$1.49
29217CM	P50	50	1.95	1.75	1.49



## .100" DIP Header Plugs

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188" • 0.1" spacing between leads

Part No.	Prod. No.	Width	Pins	1	10	100
104337CM	8HP	0.3"	8	\$0.79	\$0.67	\$0.57
37130CM	14HP	0.3"	14	1.19	.99	.89
37330CM	16HP	0.3"	16	1.35	1.25	1.09
38579CM	20HP	0.3"	20	1.49	1.35	1.19

## PANAVISE IDC Bench Press and Cable Cutter

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.

27182CM

27174CM

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10
27174CM	M505	Bench press	7.0	\$179.95	\$159.95

### M505 Accessories

27182CM	M507	Cable cutter	0.9	\$66.95	\$61.95
27203CM	M510	Base plate	0.5	26.49	24.95



## IDC Connector Crimping Tool

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors
- Size: 9.2"L x 3.0"W

Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
73251CM	HT214	\$15.95	\$14.39	\$12.95

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time.  
1-800-831-4242





## DIN and Mini DIN Plugs & Receptacles

**JAMECO ValuePro** **EXCLUSIVE**

177236CM 15886CM

- Solder barrels with strain relief • See pg 104 for cable

Part No.	Pins	Type	1	10	100
142279CM	4	Mini plug	.79	.68	.53
142261CM	6	Mini plug	.89	.77	.59
177244CM	6	Mini receptacle	.99	.85	.69
111878CM	8	Mini plug	.99	.89	.74
177236CM	8	Mini receptacle	1.09	.93	.69
15878CM	5	DIN plug	.52	.47	.41
180873CM	5	DIN receptacle	.52	.45	.34
15886CM	6	DIN plug	.59	.50	.39
15894CM	8	DIN plug	.65	.56	.43

## DIN Female Sockets

**JAMECO ValuePro**

- Metal body
- Panel mount with solder lugs

15851CM

Part No.	Cross Ref.	# of pins	1	10	100	500
15843CM	DINJ5	5	\$1.29	\$1.15	\$1.05	.79
15851CM	DINJ6	6	1.39	1.25	1.15	.99
15860CM	DINJ8	8	1.49	1.35	1.15	1.05

## Right Angle DIN Female Sockets

**JAMECO ValuePro** **EXCLUSIVE**

- Set back: 0.5"
- PC mount contacts

140792CM/119474CM: Plastic/metal body  
 29399CM: Plastic body

Part No.	Cross Ref. No.	# of pins	1	10	100	500
140792CM	MDR4S	4 (mini)	.69	.59	.46	.34
119474CM	MDR6S	6 (mini)	1.04	.91	.70	.53
29399CM	RD5	5	.59	.53	.40	.36

### Other Manufacturers — Great Deals

- Set back: 0.5"
- PC mount contacts
- Plastic/metal body

207722CM

Part No.	Cross Ref. No.	# of pins	1	10	100	500
140791CM	MDR4S	4 (mini)	.62	.56	.45	.33
207722CM	MDS8100	8 (mini)	.89	.80	.64	.48

## Cinch Circular Mini DIN Connectors

### Single-Ended Cable Assembly

- 6 or 8-pin male
- Molded-in strain relief
- Shield: steel with nickel
- Contact material: phosphor bronze
- Jacket over 28 AWG stranded wire

**Plugs**

- Plug components for cable termination

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Cinch Mini DIN Offering at [www.Jameco.com/Prod/CinchMiniDIN](http://www.Jameco.com/Prod/CinchMiniDIN)

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## AMPLATCH™ Ribbon Cable Connectors

**AMP**

Low-Profile Shrouded Headers w/ 0.150" End Dimension, Dual Row, 0.100" Centers

- 0.120" solder tail
- 0.025" square posts
- Housing: black thermoplastic, UL94V-0 rated
- Contacts: copper alloy w/ 15µ" gold over nickel
- Tin-lead solder area

\* Minimum order 10 pieces

496085CM

### Straight

**NEW**

Part No.	Product No.	Positions	1	100	500
496149CM	103308-3	16	.79	.74	.67
496085CM	103308-5	20	.79	.68	.66
496296CM	103308-6	26	.95	.85	.79
496034CM	103308-7	34	1.21	1.09	1.02
496114CM	103308-8	40	1.79	1.59	1.27

### Right Angle

Part No.	Product No.	Positions	1	100	500
496131CM	103310-1	10	.58	.532	.466

## AMPLATCH™ IDC Ribbon Connectors

**AMP** **NEW**

526045CM 620082CM

### Strain Relief for NOVO Receptacles

- UL94V-0 rated thermoplastic
- Black

\* Minimum order 10 pieces

Part No.	Product No.	Pos.	1	10	100	500
526045CM	499252-5	10	* .15	.134	.13	
526053CM	499252-9	14	.17	.169	.161	.152
526061CM	499252-8	16	.17	.134	.11	.102
527697CM	499252-2	20	.17	.125	.11	.109
527700CM	499252-3	26	.18	.144	.127	.119
526070CM	499252-6	34	.18	.135	.118	.11
526088CM	499252-4	50	.22	.196	.17	.158
527726CM	1-499252-3	64	.35	.295	.232	.215

### Low Profile PCB Right Angle Shrouded Headers

- 94V-0 rated glass reinforced thermoplastic, blue
- Contacts: phosphor bronze, 30u" gold plated over 50u" nickel plating
- 0.150" end dimension
- Double row 0.100" (2.54mm) grid center

Part No.	Product No.	Pos.	1	10	100	500
620074CM	609-1007	10	\$2.05	\$1.92	\$1.57	\$1.53
620111CM	609-2027	20	4.45	3.16	2.72	2.41

### Receptacles, Tulip Design, Center and Military Polarized w/ Strain Relief

- 0.100" (2.54mm) centers
- Housing and strain relief: 94V-0 rated glass reinforced thermoplastic, blue
- Contacts: beryllium copper, 30u" gold over 50u" nickel
- Tin/lead over nickel in termination area

Part No.	Product No.	Pos.	1	10	100	500
620146CM	609-2641	26	\$4.95	\$4.68	\$3.25	\$3.17
620082CM	609-1041	10	2.79	2.64	2.15	2.10

## Centronics Parallel Interface Connector

**JAMECO ValuePro**

### Metal Body and Shell Solder-Type Contacts

- Solder eyelets accept 24 AWG wire, pg 103
- Male cable plugs
- Complete with cable boot, shell and hardware

42382CM 57-30360

Part No.	Cross Ref. No.	Contacts	1	10	50
42382CM	57-30360	36	\$1.79	\$1.59	\$1.49

## Ribbon Cable Assemblies

- Metal connector
- 300V rating
- 105°C rating
- 28 AWG flat cable
- Tin-plated contacts

12407CM

Part No.	Description	1	10	100
12407CM	4' DB25 M-F	\$4.49	\$3.95	\$3.59
208581CM	6' DB9 M-F	3.95	3.55	3.19

## Polarized Receptacles

- 0.100" x 0.100" (2.54mm) grid center
- Preassembled housing with cover
- 0.100" grid pitch
- Insulation displacement contacts for fast, economical mass terminations
- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Dielectric withstanding voltage: 1000Vrms (receptacles); 500Vrms (pin connectors)
- Housing, cover, & strain relief: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating
- Contact plating: 15µ" gold on pin mating end, 200µ" bright tin-lead on termination end, nickel underplate

525376CM 525317CM

### Polarized

Part No.	Product No.	Pos.	1	100	500	1000
525448CM	476290-1	10	.83	.75	.68	.62
524058CM	499997-2	14	.99	.90	.80	.70
524066CM	499997-3	16	.99	.90	.82	.76
524074CM	499997-4	20	1.05	.96	.87	.83
525456CM	746290-6	26	1.75	1.57	1.34	1.10
525376CM	1-746288-0	50	4.15	3.78	3.44	3.12

### Center and Military Polarized

Part No.	Product No.	Pos.	1	10	100	500
525309CM	746285-1	10	\$1.39	\$1.28	\$1.16	\$1.06
525384CM	746288-2	14	1.79	1.69	1.59	1.35
525317CM	746282-2	14	1.95	1.77	1.61	1.46
525392CM	746288-3	16	1.49	1.33	.93	.84
525325CM	746285-3	16	2.15	1.91	1.74	1.14
525405CM	746288-4	20	1.55	1.39	.97	.87
525333CM	746285-4	20	1.95	1.74	1.59	1.44
525413CM	746288-6	26	1.89	1.71	1.55	1.54
525341CM	746285-6	26	2.39	2.17	1.97	1.79
525421CM	746288-8	34	2.19	2.09	1.99	1.39
525350CM	746285-8	34	2.59	2.33	2.12	1.93
525430CM	746288-9	40	2.45	2.26	2.13	1.87
525368CM	746285-9	40	2.05	1.85	1.68	1.38

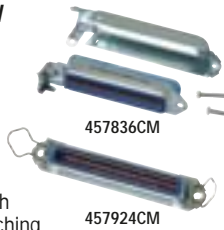
\* 30u" gold on post/pin mating end, 200u" bright tin-lead on termination end with nickel underplate

## Cinch

### .085" (2.16mm) Density Miniature Ribbon Connectors

#### Solder Cup, Metal Shell

- Terminates discrete wires with ultra-low resistance solder connections
- Metal shell provides grounding and shielding capability
- All plugs lock with INSTALATCH passive latch features for automatic latching
- Insulator: blue UL94V-0 rated diallyl phthalate type MDG
- Contact: copper alloy • Shell: steel
- Contact plating: select gold over 50µ" select nickel (standard); 30µ" select gold over 50µ" select nickel
- Shell plating: zinc w/ chromate coating
- Voltage rating: 500VAC/125VAC
- Withstanding voltage: 1200VACrms
- Contact rating: 5A • Contact resistance: 6mΩ
- Insulation resistance: 5000MΩ min. initial



**NEW**

**457836CM:** Plug, high barrier with dust cover

**457844CM:** Socket, high barrier with dust cover, low profile hood

**457828CM:** Socket, high barrier with dust cover, high profile hood

**457916CM:** Socket, vertical mount solder tail 0.110", float mounts

**457924CM:** Socket, bail latch, 0.116" hole

#### Standard 90° Orientation, Commercial End Entry Cable

Part No.	Product No.	Pos.	1	25	50	100
457836CM	57-10500-14	50	\$6.79	\$6.41	\$6.06	\$4.76
457844CM	57-20500-19	50	6.09	5.62	5.15	4.74
457828CM	57-20500-7	50	5.49	5.04	4.45	3.94
457916CM	57-20500-31	50	9.75	9.13	7.09	6.50
457924CM	57-40500	50	5.19	4.82	4.55	4.28

## JAMECO ValuePro

### .100" & 2mm IDC Socket Connectors

#### Double Row

- Mates with 2 rows of .025" Sq. or Dia. posts on patterns of .100" centers (male headers, see below) • Current rating: 1A
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimping P/N 73251CM, pg 146

Blue Part No. = Limited Quantity Available

#### Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
32491CM	S10	10	\$.29	\$.25	\$.19	\$.15
153947CM	S14	14	\$.32	\$.27	\$.21	\$.16
119466CM	S16	16	\$.35	\$.29	\$.22	\$.17
32521CM	S20	20	\$.39	\$.32	\$.25	\$.18
32563CM	S26	26	\$.45	\$.35	\$.29	\$.19
32643CM	S34	34	\$.49	\$.39	\$.35	\$.25
32678CM	S40	40	\$.55	\$.45	\$.39	\$.29
100386CM	IDC440	44 (2mm)	\$.99	\$.89	\$.71	\$.53
32707CM	S50	50	\$.65	\$.55	\$.45	\$.35
32758CM	S60	60	\$.75	\$.68	\$.61	\$.50

\*2mm pin spacing

#### Non-Polarized IDC Socket Connectors

Part No.	Cross Ref. No.	Contacts	1	10	100	1000
138376CM	SN10	10	\$.35	\$.32	\$.28	\$.24
138325CM	SN20	20	\$.45	\$.40	\$.36	\$.28
138333CM	SN26	26	\$.39	\$.35	\$.32	\$.24
138341CM	SN34	34	\$.45	\$.40	\$.35	\$.28
138350CM	SN40	40	\$.49	\$.45	\$.39	\$.29
138368CM	SN50	50	\$.65	\$.59	\$.467	\$.35

## JAMECO ValuePro

### .100" (2.5mm) Straight Male Headers

#### With Standard Latch

#### Double Row

- 0.1" contact center
- Mount vertical
- Keying slot
- Use with IDC socket connectors, above

Part No.	Description	1	10	100	500
117663CM	10-pin	\$1.29	\$1.16	\$.99	\$.61
71829CM	20-pin	1.39	1.25	1.13	.95
71933CM	26-pin	1.49	1.25	.99	.89
72215CM	50-pin	1.85	1.65	1.49	1.35

#### Other Manufacturers — Great Deals

687720CM	14-pin	\$1.31	\$1.17	\$1.03	\$.94
687711CM	40-pin	1.59	1.39	1.09	.91

## AMP

### Insertion Tool

- For use with Universal Mate-N-Lok II Terminals

Part No.	Product No.	1	10
527734CM	91002-1	\$19.19	\$18.22

## AMP

### MATE-N-LOK™ Connectors & Terminals

- Fully polarized nylon housing
- Easy cavity identification
- UL94V-2 rated housing
- Hot side egg crate design for safety
- Dielectric withstanding voltage: 1.5KVAC between adjacent circuits
- Insulation resistance: 500MΩ min. initial between adjacent circuits
- Voltage rating: 350VAC or VDC
- Durability: 50 cycles, mating and unmating

\* Prepackaged: please order in increments of 10 or 100

#### PCB In-Line Vertical Pin Header w/ Detent Lock

Part No.	Product No.	Positions	1	10	100
421340CM	350209-1	2	\$.41	\$.36	\$.32
421358CM	350211-1	4	.65	.587	.534

#### In-Line Housing Plug, Free Hanging

Part No.	Product No.	Positions	1	10	100
527013CM	1-480349-0	1	\$.104	\$.079	
527056CM	1-480318-0	2	.132	.099	
527099CM	1-480303-0	3	.27	.241	.171
527101CM	1-480424-0	4	.27	.242	.183

#### In-Line Housing Cap, Free Hanging

Part No.	Product No.	Positions	1	10	100
527187CM	1-480319-0	2	\$.133	\$.10	
527195CM	1-480426-0	4	.26	.239	.217

#### In-Line Housing Plug, Free Hanging with Positive Lock

Part No.	Product No.	Positions	1	10	100
527064CM	1-480720-2	2	\$.47	\$.42	\$.317
527110CM	1-480425-0	4	.45	.402	.329

#### Dual Row Housing Plug with Positive Lock

Part No.	Product No.	Positions	1	10	100
527144CM	1-480270-0	6 (2 x 3)	\$.53	\$.484	\$.365

#### Crimp Terminals

- Material: A—brass pre-tin; B—phosphor bronze pre-tin

Part No.	Product No.	Type	AWG	Material	10	100
526150CM	60617-1	Socket	24-18	A	\$.093	\$.084
526109CM	60617-4	Socket	24-18	B	.171	.162
526133CM	60618-1	Pin	24-18	A	.102	.093
526096CM	60618-4	Pin	24-18	B	.139	.126
526168CM	60619-1	Socket	20-14	A	.086	.076
526125CM	60620-1	Pin	20-14	A	.091	.083
526141CM	61117-1	Socket	20-14	A	.029	.027
526117CM	61118-1	Pin	20-14	A	.028	.025

## AMP

### Extraction Tools



- 421411CM: Use w/ mini universal Mate-N-Lok contacts
- 421420CM: Use with universal Mate-N-Lok contacts
- 526660CM: Use with miniature rectangular connectors

Part No.	Product No.	1	10
421411CM	189727-1	\$17.99	\$17.15
421420CM	318851-1	42.29	40.16
526660CM	455822-2	19.99	18.97

### Crimping Tools for IDC Connectors

see page 146

73251CM

27174CM

### Multicolor Flat Ribbon Cable – 28 AWG

see page 104



Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment.

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## .118"-Pitch ATX Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding volt.: 1500V/min.

**147379CM: ATX male 20-pin edge mount connector**

- Material: nylon 66, UL-94V0

**147387CM: Housing connector** • Material: nylon 66, UL-94V0

**147395CM: ATX power terminal pins** • Material: tin-plated brass



\* Minimum order 10 pieces

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
147379CM	20-pin male connector	1.7"	0.4"	0.6"	—	—	\$.59	\$.53	\$.48	\$.43
147387CM	20-pin housing connector	1.7"	0.4"	0.8"	—	147395CM	.59	.53	.48	.43
147395CM	Power terminal pin, F	0.59"	—	—	0.068"	147387CM	*	.12	.11	.10



## .098"-Pitch AT Power Connectors for Motherboards & Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- Insulation resistance: 1000MΩ min. • Withstanding volt.: 1500V/min.

**78300CM: AMP60G male 6-pin PCB mount connector**

- Material of post: tin-plated brass • Diameter of post: 0.09"

**78326CM: AMP50G female 6-pin housing connector** • Material: nylon

**78318CM: AMP501T terminal pin** • Material: tin-plated brass



\* Minimum order 10 pieces

Part No.	Description	L	W	H	Dia	Use With	1	10	100	1000
78300CM	6-pin male connector	0.93"	0.37"	0.57"	—	—	\$.45	\$.39	\$.35	\$.31
78326CM	6-pin housing connector	0.94"	0.25"	0.74"	—	78300CM	.35	.31	.28	.25
78318CM	Power terminal pin, F	0.69"	—	—	0.09"	78326CM	*	.11	.08	.07



## Power Connectors and Pins

### Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

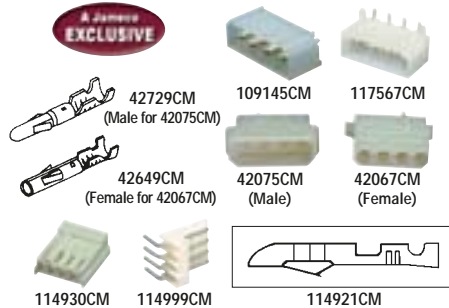
### Crimp Pin Specifications:

- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99442CM, pg 299
- Minimum order 10 pieces

### For 5.25" Disk Drives and Power Supplies

**42075CM & 42067CM Connector Housings:**

- 0.200" pitch
- Keyed mating connectors
- External key bar indicates pin 1
- See pg 127 for extraction tools, 131887CM & 131879CM



Minimum order 10 pieces

Part No.	Description	10	100	1000
109145CM	4-pin M vert. PCB mtg	\$.65	\$.59	\$.53
117567CM	4-pin M PCB mounting, horizontal edge mount	.85	.72	.65
42075CM	4-pin M housing	.12	.11	.10
42067CM	4-pin F housing	.20	.15	.13
42729CM	M crimp pin for 42075CM	.10	.07	.06
42649CM	F crimp pin for 42067CM	.10	.07	.06

### For 3.5" Disk Drives and Power Supplies

- 0.100" pitch

Part No.	Description	10	100	1000
114930CM	4-pin F housing	\$.19	\$.17	\$.15
114921CM	F crimp pin for 114930CM	.11	.095	.08
Part No.	Description	1	100	1000
114999CM	4-pin M rt. angle PCB mtg	\$.35	\$.31	\$.28

## We're Listening to Your Requests

Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com)  
 with suggestions for products you'd like to  
 see in future catalogs.



## Full Handshaking Null Modem Adapters

Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

Internal pin configuration:

**17224CM:** 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20

**26243CM:** 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

Part No.	Description	1	10	100
26243CM	DB25 M to DB25 F	.. \$3.95	\$3.65	\$3.49
17224CM	DB25 F to DB25 F	.... 3.49	2.95	2.49



## Computer Card Brackets



- For securing cards into bus slots
- Fits standard PC/XT/AT cases
- Length: 4.75"
- See pg 120 for DB connectors

Part No.	Description	Fig.	1	10	100
11754CM	Blank back panel	1	... \$1.79	\$1.59	\$1.45
101717CM	For DB9 connector	2	..... 1.79	1.59	1.45
101733CM	For DB25 connector	3	..... 1.79	1.52	1.14
101741CM	For DC37 connector	4	..... 1.79	1.52	1.14
101830CM	For DB9/DB25 conn.	5	..... 1.79	1.59	1.45

## Panel Bracket Cable Assemblies

- Standard computer back panel brackets
- Length: 12"
- Ribbon cable with header connector



**355688CM:** 1 serial port  
**149614CM:** 2 serial ports  
**149622CM:** 1 parallel port  
**179995CM:** 1 parallel & 2 serial ports

Part No.	Description	1	10	25
355688CM	DB9 to 10-pin header	..... \$2.25	\$2.00	\$1.85
149614CM	DB9M to 10-pin header			
	DB25M to 10-pin header	⊕ 2.79	2.37	1.78
149622CM	DB25 to 26-pin header	⊕ 2.79	2.51	2.26
179995CM	DB9M to 10-pin header			
	DB25M to 10-pin header			
	DB25F to 26-pin header	..... 1.39	1.16	.84

## SCSI Adapter

- See below for SCSI-type connector guide

Part No.	Description	1	10	50
125241CM	50-pin ribbon header to HPDB50 SCSI-II female	... \$9.95	\$8.45	\$6.35

## SCSI Type / Connector Reference Table

SCSI type	50-pin Centronics DB25	50-pin Header	Half pitch DB50	Half pitch DB68	WD68 Centronics	VHP68 Centronics
SCSI-I	✓	✓	✓			
SCSI-II			✓	✓		
SCSI-II wide					✓	
SCSI-III					✓	✓
RAID: SCA, SCA-2						✓



## Slim-Line D-Sub Gender Changers



### For Confined Applications!

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All-metal cases.

- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
- Tin plated shells

Part No.	Description	1	10	100
18497CM	9-pin male to male	\$4.95	\$4.49	\$3.99
18489CM	9-pin female to female	4.95	4.49	3.99
56071CM	15-pin male to male	3.95	3.49	2.95
56063CM	15-pin female to female	3.95	3.56	3.19
119319CM	15-pin female to female HD	4.75	4.28	3.84
119301CM	15-pin male to male HD	5.25	4.76	4.19
326537CM	15-pin M-F (pass through)	2.25	1.91	1.43
18446CM	25-pin male to male	4.95	4.49	3.99
18420CM	25-pin female to female	4.95	4.49	3.99
170085CM	25-pin M-F (pass through)	2.95	2.65	2.35

## D-Sub 9-Pin to 25-Pin Serial Adapters

10321CM: For PC/XT systems with DB25 serial ports.

139985CM: gold-plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10321CM	DB9 M to DB25 F	\$4.49	\$3.79	\$3.19
189632CM	DB9 M to DB25 M	3.49	3.15	2.85
139985CM	DB9 F to DB25 F	3.95	3.55	3.19

### Other Manufacturers — Great Deals

## D-Sub 9-Pin to 25-Pin Serial Adapters

10305CM: For use in AT or other computer systems that have 9-pin D-sub serial ports.

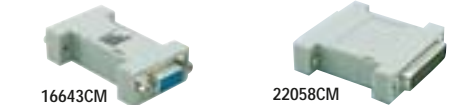
163740CM/153576CM: For PC/XT systems with DB25 serial ports.

Part No.	Description	1	10	100
10305CM	DB9 F to DB25 M	\$3.15	\$2.69	\$1.99
163740CM	DB9 M to DB25 F, thumbscrews on DB9 side only	2.55	2.19	1.65
153576CM	DB9 M to DB25 F, thumbscrews on DB25 side only	3.55	2.99	2.25
664296CM	DB9 M to DB25 M, thumbscrews on both sides	2.49	2.25	1.85

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

## Standard D-Sub Gender Changers



- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender

Part No.	Description	1	10	100
16635CM	D-sub 9-pin male	\$1.95	\$1.75	\$1.49
16643CM	D-sub 9-pin female	1.95	1.75	1.49
22058CM	D-sub 25-pin male	1.95	1.49	1.05
22074CM	D-sub 25-pin female	1.99	1.79	1.65

## Keyboard Adapters



159089CM/189771CM: AT keyboard adapter

- Connects PS/2 keyboard to AT

• 6-pin female mini DIN to 5-pin male DIN

159097CM: PS/2 keyboard adapter

- Connects AT type keyboards to the PS/2

• 5-pin female DIN to 6-pin male mini DIN (PS/2)

316831CM: USB to PS/2 keyboard adapter

- USB-A female to PS/2 male

Part No.	Length	Housing	1	10	100
159089CM	1.6"	Metal	\$2.95	\$2.65	\$2.39
159097CM	1.4"	Metal	2.95	2.65	2.39
189771CM	1.7"	Plastic	2.95	2.65	2.39
316831CM	2.0"	Plastic	1.79	1.59	1.39

### Other Manufacturers — Great Deals

## PS/2 Keyboard Adapter

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	1	10	100
157930CM	1.7"	Plastic/metal	\$2.65	\$2.25	\$1.69

## PS/2 – USB Adapter

This adapter allows you to use your PS/2 compatible mouse and keyboard as USB compatible devices.

- USB - A Male to two PS/2 female connectors
- Color coded PS/2 connectors for keyboard & mouse

Part No.	Length	Housing	1	10	25
645351CM	13"	USB adapter	\$12.35	\$11.75	\$11.15

## Amphenol® Type N Crimp Plug

- Silver-plated
- RG58/141
- Attachment (outer/inner): crimp/crimp

Part No.	Product No.	1	10	25
188445CM	82-5375-RFX	\$5.15	\$4.35	\$2.96

To Find Additional Products In This Series, Visit [www.Jameco.com/Prod/AmphenolN](http://www.Jameco.com/Prod/AmphenolN)

## Amphenol® SMA Crimp Plug

- Frequency range: 0-18GHz
- Outer cable attachment: crimp
- Inner cable attachment: solder
- Construction: captive contact
- Type: crimp plug
- Material: brass
- For RG174/U, RG188/U, and RG316/U cables

Part No.	Product No.	1	10	25
188488CM	901-9877-RFX	\$3.45	\$2.99	\$2.39

## Amphenol® SMA PCB Jacks

- Applications: cellular phone, data communication, instrumentation, and video
- 50Ω impedance
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C

Part No.	Product No.	1	10	25
188509CM	901-144-8-RFX	\$3.25	\$2.73	\$2.35
188525CM	901-143-6-RFX	5.19	4.20	3.65

## UHF Connectors and Adapters

- Frequency range: 0-300MHz
- Working voltage: 500V
- Cable type: 223600CM/223677CM: RG8/9/87A/214/313/225
- Cable type: 668385CM: RG58/58A/58C/141/303/LM195/B7806A
- Cable type: 668393CM: RG59/62/140/210
- Contact plating: nickel and silver



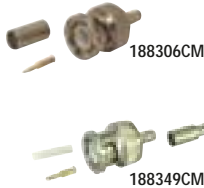
Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223562CM	83-1AP	1	UG-646/U	In-series right angle adapter, jack-plug	\$8.15	\$7.59	\$6.16
223837CM	83-1T	2	M-358	In-series T-adapter, jack-plug-jack	11.25	8.65	6.55
223597CM	83-1R	3	SO-239	Panel receptacle, solder cup, PBT polyester insulator	3.09	2.49	2.45
223600CM	83-1SP	4	PL-259	Straight plug, solder, diallyl phthalate insulator	3.65	2.81	2.52
223677CM	83-822	4	PL-259	Straight plug, solder, TFE insulator	3.95	2.99	2.75
668377CM	182106	5	PL-259	Straight plug, solder, nickel finish, phenolic insulator	2.05	1.82	1.59
668385CM	182107	6	UG-175/U	Reducing adapter, nickel finish, for 668377CM	.47	.423	.317
668393CM	182108	6	UG-176/U	Reducing adapter, nickel finish, for 668377CM	.48	.432	.285
668449CM	182109	7	PL-258	Jack-to-jack adapter, nickel finish, teflon insulator	4.55	4.34	4.13

To Find Additional Products In This Series, Visit [www.Jameco.com/Prod/AmphenolUHF](http://www.Jameco.com/Prod/AmphenolUHF)

## Amphenol<sup>®</sup> BNC 50Ω Cable Plugs

### BNC 3-Piece

- Silver-plated
- Frequency range: 0-4GHz with low reflection
- Attachment (outer/inner): crimp/crimp
- 188306CM: RG58/184
- 188349CM: RG174/188/316
- 567605CM: RG59/62
- Nickel-plated
- Gold plated brass contacts
- 567630CM: RG58/141
- 567648CM: RG59/62/140/210/302
- 567664CM/567672CM:
- 75Ω BNC plug, crimp
- Belden 9248/1694A
- RG6 type .295" OD max.
- 567681CM:
- 75Ω BNC plug, crimp



**NEW**

Part No.	Product No.	1	10	25
188306CM	31-320-RFX	\$1.49	\$1.26	\$1.03
188349CM	31-315-RFX	1.99	1.63	1.22
567605CM	31-321-RFX	1.39	1.25	1.14
567630CM	31-5800	2.05	1.88	1.73
567648CM	31-5900	2.05	1.88	1.71
567664CM	31-7000	4.89	4.54	4.18
567672CM	31-7000-RFX	2.49	2.24	2.07
567681CM	31-71033	3.09	2.92	2.68

## Amphenol<sup>®</sup> BNC Adapters



- Frequency range: 0-4GHz with low reflection
- 188411CM: Straight jack-to-jack
- 188429CM: Jack-plug-jack
- 188402CM: Gasketed jack-to-jack

Part No.	Product No.	1	10	25
188411CM	31-219-RFX	\$2.99	\$2.66	\$1.99
188429CM	31-208-RFX	4.19	3.39	2.65
188402CM	31-220G-RFX	4.15	3.69	2.52

## Amphenol<sup>®</sup> RF Adapters

### RF Coaxial Adapters

- In-series
- Commercial plugs
- Straight adapters

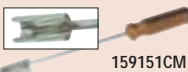


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See our Amphenol RF Adapter Offering at [www.Jameco.com/Prod/AmphenolRF](http://www.Jameco.com/Prod/AmphenolRF)

## BNC Connector Removal Tools

- For deep chassis removal
- Allows access to hard-to-reach places



Blue Part No. = Limited Quantity Available

Part No.	Product No.	Length	1	10	25
159151CM	HT2206	6"	\$11.49	\$9.05	\$6.79
152047CM	HT2212	12"	13.99	12.59	11.33

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## BNC Connectors and Adapters

- Frequency range: 0-4GHz
- Contact plating: silver/gold
- Cable type: 223360CM: RG55/141/142/223/400
- 223394CM: RG59/62/71/140/210/302
- 223474CM: RG59/62/140/210, Belden 8241/8263/8279/9209

- Working voltage: 500V
- Body plating: nickel/tin-lead

**NEW**



Part No.	Product No.	Fig.	Industry No.	Description	1	10	25
223431CM	31-202	1	UG-88C/U	50Ω plug, straight, solder cup	\$4.35	\$3.69	\$2.65
223360CM	31-5	2	UG-89/U	50Ω jack, straight, clamp/solder	5.05	4.54	3.35
223458CM	31-208	3	UG-274A/U	50Ω T-adapter, jack-plug-jack	8.59	6.59	6.49
223394CM	31-12	4	UG-260/U	50Ω plug, straight, clamp	7.29	5.54	5.14
223474CM	31-212	4	UG-260B/U	50Ω plug, straight, clamp/solder	4.19	3.21	2.95
223415CM	31-17	5	CW-159/U	50Ω male shorting cap	6.09	5.73	4.36
223440CM	31-203	6	UG-290A/U	50Ω receptacle, straight/flange, solder cup	7.25	5.73	4.24
223482CM	31-218	7	UG-491A/U	50Ω in-series adapter, plug-plug	8.35	6.99	6.25
223491CM	31-219	8	UG-914/U	50Ω in-series adapter, jack-jack	4.55	4.22	3.19
223554CM	31-3220	9	UG-492D/U	50Ω bulkhead adapter, straight, jack-jack	10.25	8.83	7.19
223511CM	31-221	10	UG-1094/U	50Ω bulkhead receptacle, straight, solder cup	3.15	2.43	1.75
223538CM	31-2221	11	UG-1094A/U	50Ω bulkhead receptacle, straight, solder cup	2.89	2.48	1.81
223520CM	31-236	10	UG-625B/U	50Ω bulkhead receptacle, straight, pin/pin	2.79	2.16	2.15
567613CM	31-4700	—	—	50Ω bulkhead plug, FCP for RG58	4.65	4.48	4.27
567621CM	31-5136	—	—	50Ω bulkhead plug, Supertwist <sup>®</sup> for RG59	4.25	3.89	3.55
567699CM	31-9-RFX	—	—	50Ω BNC adapter, R/A, jack-plug	3.09	3.01	2.95
567701CM	68175-5RFX	—	—	50Ω plug, crimp for RG59	1.39	1.28	1.18

To Find Additional Products In This Series, Visit [www.Jameco.com/Prod/AmphenolBNC](http://www.Jameco.com/Prod/AmphenolBNC)

## Amphenol<sup>®</sup> Connex Universal Hand Crimp Tools

Amphenol Connex 47 series coax crimp tools utilize industry standard crimp die-set dimensions. Full ratchet crimp action assures complete crimp before release.

- 667850CM/667884CM/667892CM/667905CM/668027CM: for BNC/TNC connectors
- 667868CM/667981CM: for N type connectors

- 667921CM: for BNC/TNC/N type connectors



Part No.	Product No.	Crimp Tool	Die Cavities (in.)	Cable Groups	1	5
667850CM	47-10070	A	.255/.213/.068	RG-55/58/59/62/141/142/223/303/400	\$45.65	\$42.75
667905CM	47-10150	B	.178/.128/.068	RG-174/188/316/179/187/180/195/178/196	45.65	42.75
667868CM	47-10090	D	.429/.100/.080	RG-8/11/213/214/225/393/N Series	45.65	42.75
667981CM	47-10230	D	.429/.213/.100	RG-8/11/213/214/225/393/58/141/223/55/142/400	46.75	44.99
667884CM	47-10110	E	.324/.255/.068/.042	RG-6/59/B8281	45.65	42.75
667892CM	47-10120	F	.213/.178/.068/.042	RG-58/174/188/316/179/187/142/141/223/400/55	46.75	44.99
667921CM	47-10180	J	.255/.213/.100/.068/.052	5 cavity RG-58/59 N/BNC/TNC/SMA connectors	45.65	42.75
667964CM	47-10210	L	.429/.118	LMR400/B9913/B9914/B7810A	45.65	42.75
668027CM	47-10270	R	.178/.128/.068/.042	BNC/TNC .068 and .042 crimp center contact	48.45	46.14

## AMP BNC Connectors

### T3/E3 Applications

- PC board/panel mount jacks
- Crimp jacks • Crimp plugs

### Additional Hardware

- Washers • Nuts

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our AMP BNC Connector Offering at [www.Jameco.com/Prod/AMPBNC](http://www.Jameco.com/Prod/AMPBNC)

[www.Jameco.com](http://www.Jameco.com)

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.



## Amphenol Connex

## BNC Connectors and Adapters 50Ω/75Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
295953CM	112116	R 1	A	50Ω straight crimp plug, captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	\$1.40	\$1.34	\$1.28
295970CM	112119	R 1	A	75Ω straight crimp plug, captive contact	RG-59/62/140/210	1.45	1.39	1.32
296008CM	112132	R 1	B	50Ω straight crimp plug, captive contact	RG-174/188A/316/B7805A	1.85	1.76	1.68
296016CM	112133	R 1	B	75Ω straight crimp plug, captive contact	RG-179/187/B9221	1.40	1.34	1.28
296032CM	112144	R 2	A	50Ω straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	1.79	1.71	1.62
296041CM	112160	R 2	B	50Ω straight crimp jack	RG-174/188A/316/B7805A	1.89	1.79	1.70
296631CM	112161	R 2	B	75Ω straight crimp jack	RG-179/187/B9221	1.89	1.79	1.70
296420CM	112162	R 3	A	50Ω right angle crimp/solder plug	RG-58/58A/58C/141/303/LMR195/B7806A	3.09	2.95	2.81
296614CM	112178	R 3	B	50Ω right angle crimp/solder plug	RG-174/188A/316/B7805A	3.49	3.43	3.09
658371CM	112202	R 4	A	50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A	2.99	2.62	2.37
658398CM	112234	R 4	B	50Ω bulkhead crimp jack	RG-174/188A/316/B7805A	2.95	2.55	2.29
658401CM	112235	R 4	B	75Ω bulkhead crimp jack	RG-179/187/B9221	2.95	2.71	2.47
658435CM	112290	R 5	—	50Ω panel receptacle jack	All 50Ω coax cables	2.85	2.72	2.59
296059CM	112404	R 6	—	50Ω straight PCB mount jack	All 50Ω coax cables	1.55	1.42	1.29
658427CM	112424	R 7	—	50Ω receptacle jack, solder terminal	All 50Ω coax cables	1.59	1.51	1.43
296067CM	112431	R 8	—	50Ω bulkhead rec. jack, isolated, solder term.	All 50Ω coax cables	1.44	1.33	1.22
658451CM	112437	R 9	—	50Ω jack-to-jack bulkhead adapter	All 50Ω coax cables	2.65	2.53	2.41
658460CM	112438	R 9	—	75Ω jack-to-jack adapter	All 75Ω coax cables	2.65	2.53	2.41
296075CM	112440	R 9	—	75Ω bulkhead jack-to-jack adapter, isolated	All 75Ω coax cables	3.75	3.45	3.15
658486CM	112443	R 10	—	50Ω jack-to-jack bulkhead adapter, isolated	All 50Ω coax cables	2.95	2.81	2.67
658494CM	112444	R 10	—	75Ω jack-to-jack bulkhead adapter, isolated	All 75Ω coax cables	2.95	2.81	2.67
658507CM	112445	R 11	—	50Ω jack-to-jack adapter	All 50Ω coax cables	1.89	1.79	1.70
296083CM	112446	R 11	—	75Ω jack-to-jack adapter	All 75Ω coax cables	1.89	1.79	1.70
658515CM	112461	R 12	—	50Ω T-adapter, jack-plug-jack	All 50Ω coax cables	1.85	1.76	1.66
658380CM	112505	R 4	A	50Ω bulkhead crimp jack	RG-55/142/223/400	2.89	2.78	2.67
296198CM	112508	R 1	E	75Ω straight crimp plug, captive contact	RG-6/143/212/B3092/B3093	1.46	1.39	1.33
296622CM	112513	R 2	A	50Ω straight crimp jack	RG-55/142/223/400	1.79	1.71	1.62
296024CM	112516	R 1	B	50Ω straight crimp plug, captive contact	RG-178/196	2.05	1.88	1.71
296139CM	112533	R 1	A	50Ω straight crimp plug, captive contact	RG-8X/LMR240/B7808A	1.48	1.42	1.35
658443CM	112538	R 13	—	50Ω straight jack PCB mount	All 50Ω coax cables	1.55	1.48	1.41
296243CM	112551	R 1	—	50Ω straight solder plug, 0.141 semi-rigid	RG-402/U	1.69	1.56	1.41
296112CM	112562	R 1	D	50Ω straight crimp plug, captive contact	RG-8/8A/213/393	4.59	4.15	3.71
296147CM	112563	R 1	L	50Ω straight crimp plug, captive contact	B9913/LMR400/B7810A/B8214	4.39	4.19	4.00
658419CM	112581	R 4	—	50Ω bulkhead crimp jack, 0.141 semi-rigid	RG-402/U	2.85	2.58	2.32
658540CM	202100	R 14	—	Male cap with chain	All BNC female connectors	1.79	1.71	1.62
658523CM	202103	R 15	—	50Ω terminator plug	All 50Ω coax cables	1.79	1.71	1.62
658531CM	202105	R 15	—	75Ω terminator plug	All 75Ω coax cables	1.89	1.79	1.70
658558CM	202114	R 14	—	Male shorting cap with chain	All BNC female connectors	2.45	2.35	2.25

## Amphenol Connex

## Type N Connectors 50Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296454CM	172100	R 16	J	Straight crimp plug captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	\$3.55	\$3.06	\$2.96
296462CM	172102	R 16	D	Straight crimp plug captive contact	RG-8/8A/213/393	3.89	3.72	3.54
296489CM	172103	R 17	J	Straight crimp jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	3.55	3.38	3.20
659198CM	172106	R 18	J	Bulkhead crimp jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	5.35	4.66	4.49
659278CM	172119	R 19	—	Panel receptacle jack, solder terminal	All 50Ω coax cables	4.35	3.99	3.64
659286CM	172122	R 20	—	Plug-to-plug adapter	All 50Ω coax cables	5.85	5.59	5.34
659294CM	172123	R 21	—	Jack-to-jack adapter	All 50Ω coax cables	4.15	3.99	3.80
296500CM	172128	R 16	B/J	Straight crimp plug captive contact	RG-174/188A/316/B7805A	4.75	4.09	3.96
296518CM	172129	R 18	B	Bulkhead crimp jack captive contact	RG-174/188A/316/B7805A	5.35	4.62	4.47
296526CM	172132	R 18	J	Bulkhead crimp jack captive contact	RG-55/142/223/400	5.09	4.87	4.65
296534CM	172133	R 22	—	Straight solder plug, 0.141 semi-rigid	RG-402/U	3.69	3.36	3.03
296542CM	172135	R 16	J	Straight crimp plug captive contact	RG-8X/LMR240/B7808A	3.79	3.31	3.20
296551CM	172137	R 18	—	Bulkhead solder jack, 0.141 semi-rigid	RG-402/U	5.35	4.85	4.38
296569CM	172138	R 18	—	Bulkhead solder jack, 0.085 semi-rigid	RG-405/U	5.29	4.82	4.33
659201CM	172149	R 18	J	Bulkhead crimp jack captive contact	RG-8X/LMR240/B7808A	5.09	4.43	4.28
659235CM	172173	R 23	B/J	Straight crimp panel jack captive contact	RG-174/188A/316/B7805A	6.29	6.03	5.76
659180CM	172176	R 24	L	Right angle crimp plug	B9913/LMR400/B7810A/B8214	6.05	5.50	5.17
659163CM	172177	R 24	A	Right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A	7.39	6.44	6.22
659171CM	172180	R 24	B/J	Right angle crimp plug	RG-174/188A/316/B7805A	7.35	6.40	6.19
296606CM	172203	R 17	L	Straight crimp jack captive contact	B9913/LMR400/B7810A/B8214	3.39	3.08	2.77
659147CM	172206	R 16	HEX	Straight crimp plug captive contact	LMR600	8.55	7.44	7.19
659219CM	172208	R 23	J	Straight crimp panel jack captive contact	RG-58/58A/58C/141/303/LMR195/B7806A	5.55	5.31	5.06
659112CM	172214	R 16	J	Straight crimp plug captive contact	LMR200/B7807A	3.25	2.92	2.63

\* Crimp tools for these connectors are on page 151

RoHS compliant product


























This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

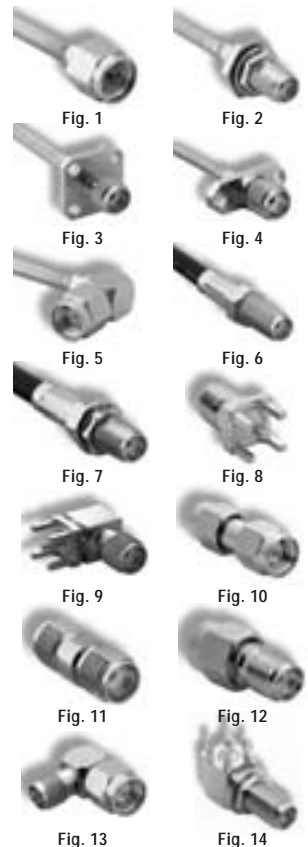
Details on page 1.



## Amphenol Connex




### SMA Connectors 50Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
658718CM	132100		1	— Straight cable plug, 0.141 semi-rigid	RG-402/U .....	\$1.17	\$1.05	\$0.97
296251CM	132105		2	— Bulkhead feed through cable jack-o-ring seal, 0.141 semi-rigid	RG-405/U .....	3.99	3.60	3.26
296260CM	132106		2	— Bulkhead feed through cable jack-o-ring seal, 0.085 semi-rigid	RG-402/U .....	4.45	4.03	3.63
296278CM	132107		3	— Panel mount cable jack, 4-hole square flange, 0.085 semi-rigid	RG-405/U .....	4.65	4.45	4.24
296286CM	132109		4	— Panel mount cable jack, 2-hole flange, 0.085 semi-rigid	RG-405/U .....	4.15	3.74	3.55
296294CM	132111		5	— Right angle cable plug, 0.085 semi-rigid	RG-405/U .....	3.89	3.53	3.18
296307CM	132112		5	— Right angle cable plug, 0.141 semi-rigid	RG-402/U .....	3.89	3.53	3.18
296315CM	132113		1	A Straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	2.49	2.24	2.02
296323CM	132114		1	B Straight crimp plug	RG-174/188A/316/B7805A .....	2.49	2.24	2.06
296340CM	132116		6	A Straight crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A ..	3.69	3.33	3.00
658945CM	132117		6	B Straight crimp jack	RG-174/188A/316/B7805A .....	3.69	3.33	3.00
658849CM	132118		7	A Bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A ..	3.85	3.47	3.13
296331CM	132119		7	B Bulkhead crimp jack	RG-174/188A/316/B7805A .....	4.05	3.68	3.35
296358CM	132122		5	A Right angle crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	4.99	4.51	4.07
296366CM	132123		5	B Right angle crimp plug	RG-174/188A/316/B7805A .....	4.49	4.06	3.69
296374CM	132134		8	— Straight jack, PCB terminals	All 50Ω coax cables .....	3.45	3.29	3.13
658996CM	132136		9	— Right angle jack, PCB	All 50Ω coax cables .....	5.75	5.51	5.26
659032CM	132168		10	— Plug-to-plug adapter	All 50Ω coax cables .....	4.59	4.38	4.17
659041CM	132169		11	— Jack-to-jack adapter	All 50Ω coax cables .....	3.85	3.67	3.50
659067CM	132171		12	— Plug-to-jack adapter	All 50Ω coax cables .....	4.25	4.05	3.86
659075CM	132172		13	— Right angle plug-to-jack adapter	All 50Ω coax cables .....	6.09	5.63	5.04
296403CM	132195		1	A Straight crimp plug	RG-55/142/223/400 .....	2.95	2.90	2.67
659008CM	132203		14	— Right angle bulkhead jack, PCB	All 50Ω coax cables .....	7.75	7.41	7.08
658751CM	132231		1	A Straight crimp plug	RG-8X/LMR240/B7808A .....	4.09	3.70	3.48
658742CM	132234		1	A Straight crimp plug	LMR200/B7807A .....	2.85	2.57	2.32



## Amphenol Connex
















### SMB Connectors 50Ω

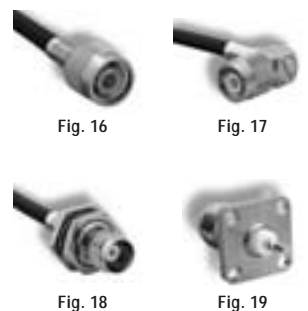
Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
659358CM	142186		15	B Straight crimp plug	RG-174/188A/316/B7805A .....	\$4.39	\$3.71	\$3.52
659366CM	142187		15	C Straight crimp plug	RG-316/U double braided .....	4.25	3.71	3.52
659374CM	142229		15	B Straight crimp plug	RG-178/196 .....	4.49	4.07	3.64



## Amphenol Connex







### TNC Connectors 50Ω/75Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296155CM	122108		16	A 50Ω straight crimp plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	\$1.37	\$1.20	\$1.16
658574CM	122111		16	A 75Ω straight crimp plug	RG-59/62/140/210 .....	1.40	1.34	1.28
658603CM	122116		16	B 50Ω straight crimp plug	RG-174/188A/316/B7805A .....	1.75	1.52	1.47
658611CM	122140		17	A 50Ω right angle crimp/solder plug	RG-58/58A/58C/141/303/LMR195/B7806A ..	2.99	2.58	2.50
658638CM	122148		17	B 50Ω right angle crimp/solder plug	RG-174/188A/316/B7805A .....	3.25	2.83	2.74
296171CM	122160		18	A 50Ω bulkhead crimp jack	RG-58/58A/58C/141/303/LMR195/B7806A ..	2.89	2.49	2.40
296180CM	122192		18	B 50Ω bulkhead crimp jack	RG-174/188A/316/B7805A .....	2.89	2.49	2.40
658700CM	122248		19	— 50Ω panel receptacle jack	All 50Ω coax cables .....	2.19	2.12	2.05
658646CM	122358		18	B 50Ω bulkhead crimp jack	RG-316/U double braided .....	2.85	2.63	2.40
658654CM	122370		18	B 50Ω bulkhead crimp jack	RG-178/196 .....	3.35	3.20	3.05
296201CM	122393		16	L 50Ω straight crimp plug	B9913/LMR400/B7810A/B8214 .....	4.59	4.15	3.74
658582CM	122394		16	D 50Ω straight crimp plug	RG-8/8A/213/393 .....	4.39	4.15	4.00
658591CM	122408		16	A 50Ω straight crimp plug	RG-8X/LMR240/B7808A .....	1.59	1.38	1.33
658566CM	122410		16	A 50Ω straight crimp plug	LMR200/B7807A .....	1.33	1.20	1.08
658620CM	122430		17	A 50Ω right angle crimp/solder plug	RG-55/142/223/400 .....	3.19	2.93	2.68





## Amphenol Connex

### MCX/MMCX Connectors 50Ω

Part No.	Prod. No.	Fig.	Crimp Tool*	Description	Cable Groups	1	10	25
296649CM	252102		20	B MCX right angle crimp plug	RG-174/188A/316/B7805A .....	\$4.35	\$3.84	\$3.55
662506CM	252103		21	B MCX straight crimp plug	RG-174/188A/316/B7805A .....	4.15	4.09	4.04
296657CM	252105		22	— MCX straight jack, PCB	All 50Ω coax cables .....	3.39	3.24	3.09
296665CM	252109		20	— MCX rt angle solder plug, 0.085 semi-rigid	RG-405/U .....	4.25	4.05	3.86
296673CM	262102		23	B MMCX right angle cable plug	RG-178/196 .....	3.15	3.09	2.98
296681CM	262103		23	B MMCX right angle cable plug	RG-174/188A/316/B7805A .....	3.15	3.09	2.98



\* Crimp tools for these connectors are on page 151

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## BNC Connectors and Adapters



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355098CM	31-2	1	UG-88/U	50Ω BNC plug, clamp, for RG-58 /141/142/400 cables	\$3.59	\$2.75	\$2.55
311343CM	31-10-RFX	2	—	50Ω BNC jack, bulkhead	1.89	1.83	1.78
355101CM	31-202	1	UG-88C/U	50Ω BNC plug, clamp, for RG-55/58/141/142/223/400 cables	3.59	3.07	2.23
355119CM	31-203	3	UG-290A/U	50Ω BNC receptacle, panel mount, solder cup	5.65	4.42	3.28
355127CM	31-208-RFX	4	UG-274A/U	50Ω BNC T-adapter, jack-plug-jack	3.29	2.81	1.92
355135CM	31-212	1	UG-260B/U	50Ω BNC plug, clamp, for RG-59/62/71/140/210/302 cables	3.49	2.67	2.48
363961CM	31-218	5	UG-491A/U	50Ω BNC straight adapter, plug-plug	7.69	5.91	4.88
355151CM	31-219-RFX	6	UG-914/U	50Ω BNC straight adapter, jack-jack	2.49	2.21	1.68
363979CM	31-220G-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.75	2.47	1.69
355362CM	6775	1	UG-959/U	50Ω BNC plug, clamp/solder, for RG-8/9/87A/213/214/225	8.09	7.99	7.28
311319CM	68175-5RFX	9	—	50Ω BNC 3-pc plug for crimp RG-59	1.15	.98	.80
311327CM	69475	1	—	50Ω BNC plug, clamp for RG-174/179/187/188/316	6.05	5.18	3.56
311351CM	31-220N-RFX	7	—	50Ω BNC bulkhead adapter, jack-jack	2.99	2.71	2.46
355178CM	31-221	8	UG-1094/U	50Ω BNC bulkhead receptacle w/ grounding lug, solder cup	2.09	1.79	1.65
311378CM	31-315	9	—	50Ω BNC 3-pc cable crimp plug, for RG-174 cables	4.49	3.82	3.19
355215CM	31-315-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables	1.55	1.49	1.39
355223CM	31-318-RFX	11	—	50Ω BNC bulkhead jack, for RG-174/188/316 cables	2.95	2.75	2.22
355240CM	31-320-RFX	10	—	50Ω BNC 3-pc plug, crimp, for RG-58/141 cables	1.32	1.25	1.23
311394CM	31-321	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	4.49	3.48	2.79
311408CM	31-321-RFX	12	—	50Ω BNC 3-pc cable crimp plug, for RG-59 cables	1.35	1.29	1.07
355258CM	31-2221	13	UG-1094A/U	50Ω BNC bulkhead receptacle, solder cup	2.39	2.06	1.52
311511CM	31-70000	14	—	75Ω 3-pc plug, crimp, RG-6 type, Belden 9248/1694A	4.19	3.49	3.07
311520CM	31-70008-1000	14	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	5.85	4.48	3.49
311538CM	31-71000-RFX	15	—	75Ω BNC 3-pc plug, crimp, for RG-6 type 0.295" O.D. cables, Belden 9248/1694A cables	1.89	1.78	1.37
311546CM	31-71008-RFX	16	—	75Ω BNC 3-pc plug, crimp, for RG-59/62 cables, Belden 8241/8263/8279/9209 cables	1.42	1.29	1.18
311554CM	31-71013-RFX	17	—	75Ω BNC plug, crimp, for RG-179/187 cables	1.99	1.64	1.59
311562CM	31-71014-RFX	18	—	75Ω BNC jack, crimp, for RG-179/187 cables	1.75	1.69	1.49
311571CM	31-71032	19	—	75Ω BNC 3-pc plug, crimp, for Belden 8281/88281 cables	3.05	2.62	2.08
311589CM	31-71033	20	—	75Ω BNC 3-pc plug, crimp, for Belden 8218 cables	3.75	3.41	3.10



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20

Blue Part No. = Limited Quantity Available

## TNC Type Connector

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311415CM	31-2367-RFX	21	—	50Ω TNC plug, crimp-crimp, for RG-58/141 cables	\$1.35	\$1.29	\$1.07

Fig. 21



## Type N Connectors

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311600CM	82-97-RFX	22	UG-58A/U	50Ω Type N receptacle jack, panel mount	\$3.59	\$2.56	\$2.31
311618CM	82-202-1006	23	—	50Ω Type N clamp plugs, for B9913/Amp TWB 4001 cables	6.59	4.97	4.07

Fig. 22



Fig. 23



## SMA Connectors

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
355282CM	901-143-6RFX	24	—	50Ω SMA jack, right angle, PC mount	\$4.35	\$3.85	\$3.60
355291CM	901-9876-RFX	25	—	50Ω SMA plug, crimp, for RG-58C/U; RG58/U cables	2.55	2.21	1.80
355303CM	901-9877-RFX	26	—	50Ω SMA plug, crimp, for RG-174/U; RG-188A/U; RG-316/U cables	2.55	2.21	1.80

Fig. 24



Fig. 25



Fig. 26



## MMCX Connector

Part No.	Cross Ref. No.	Fig.	Industry No.	Description	1	10	25
311686CM	908-43200	27	—	50Ω MMCX right angle plug, crimp for RG-178/U cables	\$6.35	\$5.15	\$4.97
311693CM	904-43300	27	—	50Ω MMCX right angle plug, crimp for RG-174/188/316	7.09	6.29	5.59











Fig. 27



We carry major manufacturers – call for OEM PRICING.

**JAMECO ValuePro** **A Jameco EXCLUSIVE** **BNC Coax Connectors** **Quantity SAVE**

- Miniature, lightweight units designed to operate up to 11GHz and typically yield low reflection up to 4GHz

Part No.	Fig.	Description	1	10	100	500
71458CM	1	BNC male terminator (50Ω) ⊕	\$1.55	\$1.15	\$0.99	\$0.89
71790CM	1	BNC male terminator (75Ω)	1.35	1.09	.89	.73
135618CM	2	BNC male with pin and ferrule (RG6)	.89	.69	.45	.39
71482CM	2	BNC male with pin and ferrule (RG58)	1.65	1.49	1.35	1.25
71271CM	2	BNC male with pin and ferrule (RG59/62)	.81	.66	.59	.54
112109CM	2	BNC male with pin and ferrule (RG174) ⊕	1.59	1.45	1.29	1.15
119394CM	3	BNC male clamp-on (RG59/62)	1.39	1.25	1.15	.89
108994CM	4	BNC male twist-on (RG58)	1.49	1.35	1.19	.95
71781CM	4	BNC male twist-on (RG59/62)	1.09	.99	.89	.79
71589CM	5	BNC female panel mount (UG-1094A) ⊕	1.49	1.35	1.25	1.09
71909CM	6	BNC female/female coupler (UG-914)	1.29	.99	.85	.74
127343CM	7	BNC male/male coupler (UG-491B/U) ⊕	1.99	1.79	1.39	1.29
111561CM	8	BNC female isolated bulkhead	2.29	1.99	1.79	1.59
148224CM	9	BNC female bulkhead feed-thru	1.99	1.79	1.59	1.39
148232CM	9	BNC female isolated bulkhead feed-thru ⊕	2.49	2.25	1.79	1.35
127351CM	10	BNC M-F right angle (DG-306B/O) ⊕	2.49	2.19	1.85	1.59
160928CM	11	BNC female, crimp type (RG58) ⊕	1.25	1.09	.99	.89
161921CM	11	BNC female, crimp type (RG174) ⊕	1.49	1.35	1.19	1.05
174289CM	12	BNC female chassis mount ⊕	1.19	.98	.88	.79
174297CM	13	BNC female twist-on bulkhead ⊕	2.25	2.02	1.62	1.22
174254CM	14	BNC male to F connector female ⊕	1.99	1.59	1.45	1.19
207183CM	15	BNC male to RG58/59 crimp on	3.99	3.59	2.89	2.15

**JAMECO ValuePro** **A Jameco EXCLUSIVE** **BNC PCB Connectors**

- Maintains matching impedance at 50Ω & 75Ω
- Ideal for LAN cards & precision video

Part No.	Description	Length (L)	1	10	100	500
146510CM	BNC female R/A plastic insulation ⊕	1.37"	\$1.95	\$1.75	\$1.49	\$1.25
161656CM	BNC female right-angle metal ⊕	.861"	2.29	1.99	1.79	1.59

**Other Manufacturers — Great Deals**

• Length: 0.830"



Part No.	Description	1	10	100	500
210884CM	BNC female straight/panel mount metal	\$1.35	\$1.20	\$1.09	\$0.99

**JAMECO ValuePro** **A Jameco EXCLUSIVE** **BNC Adapters**

- Silver-plated • General purpose coax T-adapter
- ThinNet/Ethernet LAN adapter • Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100	500
118594CM	Male to female/female T-adapter	\$2.39	\$2.15	\$1.75	\$1.25
207095CM	Female to male/male T-adapter ⊕	6.99	6.25	5.59	4.99
72629CM	Female to female/female T-adapter	2.49	2.25	1.99	1.69
207087CM	Female to male/female T-adapter ⊕	9.95	8.95	6.45	5.39
100597CM	Male to female/female T-adapter (180°) ⊕	5.99	5.39	4.85	3.99
207116CM	Male to female/female/female T-adapter ⊕	7.19	6.45	5.79	4.95
117461CM	Male to female/female F-adapter (90°) ⊕	4.29	3.89	3.49	2.99
207124CM	Male/male to female/female T-adapter	4.49	4.05	3.25	2.45
207167CM	RCA female to BNC female ⊕	1.99	1.79	1.59	1.39
114788CM	RCA female to BNC male adapter ⊕	1.35	1.05	.99	.98
207175CM	RCA male to BNC male ⊕	1.99	1.79	1.59	1.39
114753CM	RCA male to BNC female adapter ⊕	1.59	1.45	1.29	1.09
114770CM	BNC female to "F" connector male adapter	1.79	1.59	1.39	1.19
207141CM	3.5mm mono male to BNC female ⊕ ⊕	1.69	1.49	1.27	.95

**JAMECO ValuePro** **A Jameco EXCLUSIVE** **BNC Male Coax Cables**

**RG6 75Ω Cables**

Part No.	Description	1	10	50	100
176794CM	3' BNC to BNC ⊕	\$3.95	\$3.55	\$3.19	\$2.89
176815CM	6' BNC to BNC ⊕	4.95	4.49	4.05	3.35

**RG58/U 50Ω Cables**

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
181307CM	CRG58-1RR ⊕	1	\$3.65	\$3.29	\$2.95	\$2.75
102314CM	CRG58-1 ⊕	1.5	3.99	3.39	2.87	2.15
256743CM	CBB-224-24 ⊕	2	4.15	3.69	3.32	2.99
11404CM	CRG58-3	3	4.29	3.89	3.49	3.15
102331CM	CRG58-6	6	4.39	3.99	3.59	3.19
152311CM	RG58MF-6 ⊕ *	6	2.95	2.66	2.12	1.59
180822CM	CRG58-10 ⊕	10	4.49	3.99	3.40	2.99
102349CM	CRG58-12 ⊕	12	4.95	4.49	3.99	3.39
169818CM	CRG58-15 ⊕	15	5.95	5.36	4.66	4.34
102381CM	CRG58-100	100	13.49	12.14	9.71	7.28

\* 152311CM has male & female coax

**Other Manufacturers**

102357CM	CRG58-25	25	\$6.49	\$5.84	\$5.26	\$4.75
102365CM	CRG58-50	50	9.49	8.54	6.83	5.12
319644CM	205-5100	100	13.09	11.89	9.52	7.13

**RG59/U 75Ω Cables**

- For CATV and video patch cords

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
86471CM	CRG59-1 ⊕	1.5	\$2.99	\$2.69	\$2.45	\$2.19
85542CM	CRG59-6 ⊕	6	3.75	3.38	3.04	2.56
102373CM	CRG59-12	12	5.49	4.95	4.45	3.99
262730CM	EBC-525 ⊕	25	9.95	8.95	8.05	7.25
262748CM	EBC-550 ⊕	50	17.05	16.25	15.45	14.69
262764CM	EBC-510 ⊕	100	30.39	28.89	27.45	25.99

**RG174/U 50Ω Cables**

- For Ethernet networks, oscilloscopes

Part No.	Cross Ref. No.	Length (ft.)	1	10	50	100
111472CM	RG174U3 ⊕	3	\$3.85	\$3.49	\$3.15	\$2.85
111481CM	RG174U6 ⊕	6	4.59	4.15	3.75	3.35





## 75Ω "F" Connectors/Adapters/Terminators



Part No.	Ref. No.	Fig.	Description	1	10	50	100
291581CM	200-016	1	Perma-seal, RG-59 coax	.69	.59	.55	.49
291531CM	200-028	1	Perma-seal, RG-6 coax	.69	.59	.55	.49
291709CM	200-050	2	F-jack to jack (nickel)	.65	.55	.475	.38
291725CM	200-051	2	F-jack to jack (gold)	.95	.85	.79	.75
295371CM	200-053	3	F-panel mount jack to jack (nickel)	.65	.55	.475	.38
295380CM	200-107	4	F-R/A jack to plug (nickel)	1.59	1.39	1.16	.95
295398CM	200-103	5	F-jack to push-on plug (nickel)	.85	.69	.627	.523
295435CM	200-104	5	F-jack to push-on plug (gold)	1.15	.99	.95	.89
29531CM	200-117	6	F-jack to 3.5mm mono plug (nickel)	1.65	1.35	1.13	.93
295451CM	200-075	7	F-plug terminator	.55	.45	.35	.25
309657CM	200-045	8	RCA female to F male adapter	1.75	1.35	.97	.87

## 75Ω "F" Connectors



Part No.	Cross Ref No.	Fig.	Description	1	10	50	100
289828CM	200-030	1	RG-59 crimp-on nickel plated	.22	.20	.17	.14
289908CM	200-031	1	RG-59 crimp-on gold plated	.45	.43	.41	.39
289887CM	200-035	2	RG-6 crimp-on nickel plated	.22	.20	.17	.14
289916CM	200-036	2	RG-6 crimp-on gold plated	.45	.43	.41	.39
290001CM	200-039	3	RG-6 twist-on nickel plated	.79	.69	.45	.32
289975CM	200-040	3	RG-59 twist-on nickel plated	.79	.69	.45	.32
289924CM	200-038	4	RG-6 crimp-on weatherproof seal, brass	.69	.59	.49	.39
314510CM	200-024	4	RG-6 crimp-on weatherproof seal	.55	.46	.37	.33

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

## SMA Connectors, Adapters and Couplers



- Application: cellular phone, data communication, instrumentation and video
- Frequency range: 0-18GHz
- Temperature range: -65°C to 165°C
- 50Ω impedance
- Plating: gold and nickel

Blue Part No. = Limited Quantity Available

### Connectors

Part No.	Description	Cable Type	Plated	1	10	50	100
157972CM	SMA 50Ω crimp type male plug connector	RG-58	Gold	\$3.99	\$3.59	\$3.29	\$2.99
153365CM	SMA 50Ω crimp type male plug connector	RG-174	Gold	4.39	3.95	3.55	3.19
145381CM	SMA straight female PCB mount connector, 4 legs	—	Gold	5.25	4.75	4.25	3.49
145373CM	SMA 90° female PCB mount connector, 4 legs	—	Gold	7.39	6.65	5.95	5.39
153285CM	SMA bulkhead solder female w/ washer, rear mount	RG-58/174	Gold	3.49	3.15	2.85	2.59
159530CM	SMA female panel mount conn., 4 mounting holes	RG-58/174	Gold	2.95	2.65	2.35	2.10
160021CM	SMA female panel mount conn., 2 mounting holes	RG-58/174	Gold	3.99	3.59	3.25	2.95
160012CM	Panel mount feed thru connector female - female	—	Nickel	4.99	4.49	3.99	3.49

\*159530CM/160021CM: Solder cup

### Couplers



Part No.	Description	Plated	1	10	50	100
153293CM	SMA straight coupler female - jack-to-jack	Gold	\$3.85	\$3.39	\$2.19	\$1.79
161277CM	SMA 3-way coupler, 1 male - 2 female	Gold	3.49	3.15	2.85	2.55
161293CM	SMA straight coupler male - male	Gold	3.65	3.29	2.95	2.75
161306CM	SMA right angle coupler male - female	Gold	4.99	4.49	3.99	3.65

### SMA to BNC Adapters



Part No.	Description	Plated	1	10	50	100
153453CM	SMA female to BNC male adapter	Nickel	\$2.49	\$2.25	\$1.99	\$1.79
159468CM	SMA female to BNC female adapter	Nickel	2.69	2.45	2.19	1.99
153592CM	SMA male to BNC male adapter	Nickel	3.99	3.59	3.19	2.89
159476CM	SMA male to BNC female adapter	Nickel	2.99	2.69	2.45	2.19

## SMB Connectors



- For use with RG-174 coax
- 50Ω crimp type
- Use with crimping tool P/N 114534CM, pg 298
- Gold plated

Part No.	Description	1	10	50
172363CM	Bulkhead crimp jack	\$3.49	\$2.95	\$2.49
172371CM	Cable crimp plug	4.29	3.89	3.49

## SMB PCB Connector

- 0-4GHz electrical performance
- Gold plated brass
- Insulation: teflon
- Contact: beryllium copper

Part No.	Description	1	10	50
167311CM	Right angle PCB	\$4.45	\$3.89	\$3.25

## Hex Crimp Tools

- Use with RG-58 and RG-59 connectors with up to a 3/8" ferrule
- 261745CM: 1.7mm standard crimp for crimping center conductor on BNC & TNC connectors; up to 3/8" ferrule
- 261737CM: Ferrules up to 1/2"

Part No.	Description	1	5
261745CM	Hex crimp tool (3/8")	\$19.75	\$18.55
261737CM	Hex crimp tool (1/2")	18.49	16.65

## Cinch SMA Connectors

- Jacks and plugs
- Straight
- Right angle
- Edgemount



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See Complete Cinch RF Connector Offering at [www.Jameco.com/Prod/CinchRF](http://www.Jameco.com/Prod/CinchRF)

## Type N Adapter

- Male to male
- Gold plated contacts
- Nickel plated machined brass construction

Part No.	Description	1	10	25
309622CM	N-series adapter 	\$3.75	\$2.99	\$2.45
















## JAMECO ValuePro SMA/SMB 50Ω Coax Cables



- Fig. 1: SMA male to SMA male  
 Fig. 2: SMA male to SMA right angle male  
 Fig. 3: SMA right angle male to SMA right angle male  
 Fig. 4: SMB plug to SMB plug

 Limited Quantity Available



Part No.	Cable	Fig.	Lgth (ft.)	1	10	50
159370CM	RG-58 	1	2	\$4.49	\$3.99	\$3.49
159396CM	RG-58 	1	6	5.49	4.89	4.19
169800CM	RG-174 	1	0.5	5.59	4.99	4.55
163854CM	RG-174 	1	1	4.49	3.95	3.39
153381CM	RG-174 	1	2	4.95	4.29	3.39
153390CM	RG-174 	1	4	5.49	4.75	4.29
159450CM	RG-174 	1	6	6.79	6.15	5.55
175126CM	RG-174 	2	0.5	4.49	3.95	3.49
175134CM	RG-174 	2	1	4.95	4.25	3.75
175142CM	RG-174 	3	0.5	5.75	5.25	4.49
175151CM	RG-174 	3	1	6.25	5.75	4.75
175169CM	RG-174 	4	0.5	4.29	3.89	3.49
175177CM	RG-174 	4	1	5.29	4.79	3.95

## molex BEAU Terminal Blocks



- 0.375" double row
- Current rating: UL rated 15A @ 300V, #14AWG
- Wire AWG range: 12 – 24AWG
- Insulation resistance: >5000MΩ
- Terminal: brass, nickel plated
- Dielectric withstanding voltage: 7500VDC
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 steel, zinc chromate plate

**NEW**



Part No.	Product No.	Beau No.	Pos.	1	25	50
659391CM	38770-0102 	77002	2	\$ .57	\$ .54	\$ .52
659403CM	38770-0103 	77003	3	.66	.63	.58
659411CM	38770-0104 	77004	4	.98	.89	.71
659420CM	38770-0105 	77005	5	1.21	1.16	.92
659438CM	38770-0106 	77006	6	1.55	1.39	1.11
659446CM	38770-0107 	77007	7	1.59	1.43	1.15
659454CM	38770-0108 	77008	8	1.89	1.71	1.37
659462CM	38770-0109 	77009	9	2.65	2.43	2.29
659471CM	38770-0110 	77010	10	2.25	2.05	1.64
659489CM	38770-0112 	77012	12	2.45	2.33	1.86
659497CM	38770-0114 	77014	14	2.99	2.76	2.20
659500CM	38770-0115 	77015	15	2.85	2.69	2.39
659518CM	38770-0116 	77016	16	3.39	3.12	2.49
659526CM	38770-0118 	77018	18	3.05	2.87	2.72
659534CM	38770-0120 	77020	20	3.95	3.87	3.09
659542CM	38770-0122 	77022	22	4.45	4.10	3.27
659551CM	38770-0124 	77024	24	4.65	4.56	3.64
659569CM	38770-0130 	77030	30	6.15	5.64	4.49

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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

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## Terminal Blocks and Header



- For detailed specifications, please see our website at [www.Jameco.com](http://www.Jameco.com)
- 164814CM: Male header (.197") for use with 164793CM and 164806CM



Fig. 1 (99397CM)



Fig. 2 (160784CM)

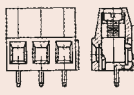


Fig. 3 (161066CM)



Fig. 4 (189675CM)



Fig. 5 (164793CM)

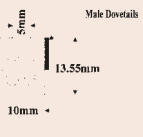


Fig. 6 (164806CM)



Fig. 7 (249084CM)

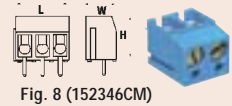















Fig. 8 (152346CM)

Fig. 9 (164814CM) use w/ Fig. 5 & 6

Part No.	Mfg.	Product No.	Fig.	Term.	Terminal Spacing	1	10	100	1000
99426CM	Dinkle	DT128/2 	1	2	0.197"/5mm	\$.72	\$.55	\$.44	\$.40
99397CM	Dinkle	DT128V3P 	1	3	0.197"/5mm	.99	.89	.79	.59
160784CM	Dinkle	EK500V-02P 	2	2	0.197"/5mm	.65	.55	.45	.39
160792CM	Dinkle	EK500V-03P 	2	3	0.197"/5mm	.95	.85	.75	.69
161066CM	Dinkle	EK500A-02P 	3	2	0.197"/5mm	.75	.65	.49	.39
161058CM	Dinkle	EK500A-03P 	3	3	0.197"/5mm	.95	.85	.75	.69
189675CM	OST	EDC500/2DS 	4	2	0.197"/5mm	.79	.71	.64	.58
189667CM	OST	EDC500/3DS 	4	3	0.197"/5mm	.89	.80	.72	.61
164793CM	OST	EDC130/2DS 	5	2	0.197"/5mm	.59	.53	.47	.42
164806CM	OST	EDC130/3DS 	6	3	0.197"/5mm	.84	.76	.62	.54
249084CM	OST	EDZ750/3 	7	3	0.200"/5.08mm	2.45	2.19	1.99	1.79
152346CM	OST	EDC120/2DS 	8	2	0.200"/5.08mm	.65	.55	.45	.39
152354CM	OST	EDC120/3DS 	8	3	0.200"/5.08mm	.47	.44	.39	.31
164814CM	OST	EDSTL130/24	9	24	0.197"/5mm	2.19	1.97	1.80	1.36

## Cinch











## Double Row Barrier Blocks

- Voltage rating: 250VAC RMS max.
- Eyelet material: brass with nickel plating
- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating
- Solder terminal material: brass with electro-tin plating












### 140 Series 15A

- 3750-watts per terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H
- Screw: 5-40 x 3/16"
- Density: 0.375"

Part No.	Prod. No.	Pos.	Length	1	10	100
230973CM	2-140 	2	1.41"	\$.99	\$.89	\$.74
230981CM	3-140 	3	1.78"	1.29	1.15	.95
230990CM	4-140 	4	2.16"	1.45	1.29	1.05
231001CM	5-140 	5	2.53"	1.59	1.44	1.18
231010CM	6-140 	6	2.91"	1.99	1.79	1.48
231028CM	7-140 	7	3.28"	2.19	1.95	1.59
231036CM	8-140 	8	3.66"	2.49	2.24	1.83
231044CM	9-140 	9	4.03"	2.79	2.49	2.03
231052CM	10-140 	10	4.41"	3.25	2.89	2.35
231061CM	12-140 	12	5.16"	3.55	3.15	2.59

### 141 Series 20A

- 5000-watts per terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H
- Screw: 6-32 x 1/4"
- Density: 0.438"

Part No.	Prod. No.	Pos.	Length	1	10	100
231351CM	2-141 	2	1.63"	\$.99	\$.85	\$.72
231360CM	3-141 	3	2.10"	1.69	1.45	1.09
231378CM	4-141 	4	2.50"	1.79	1.59	1.25
231394CM	6-141 	6	3.38"	1.99	1.75	1.45
231407CM	7-141 	7	3.81"	2.49	2.25	1.85
231415CM	8-141 	8	4.25"	2.79	2.35	1.94
231423CM	9-141 	9	4.69"	2.99	2.59	2.19
231431CM	10-141 	10	5.13"	3.19	2.79	2.29
231440CM	12-141 	12	6.00"	3.59	3.29	2.69

To Find Additional Cinch Double Barrier Blocks, Visit [www.Jameco.com/Prod/Cinch2RBlocks](http://www.Jameco.com/Prod/Cinch2RBlocks)

## BUCHANAN

## Barrier/Terminal Blocks

### Terminal Blocks

- Polarization keys for virtually error-free mating

### Europa Terminal Blocks

- Modular design
- Tubular contacts
- Wire protectors

### Dual/Tri Barrier Strips

- Fast wiring – backed-out wire-ready screw
- Interrupted thread designed to prevent screws from falling out

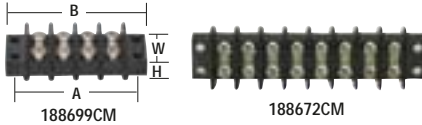
### Interface Modules

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See Complete Buchanan Terminal/Barrier Blocks Offering at [www.Jameco.com/Prod/BuchananBlocks](http://www.Jameco.com/Prod/BuchananBlocks)



## KULKA® 601 GP Series Double Row Terminal Blocks



- Base: general purpose phenolic; 150°C
- Screws: #6-32, binder head, phillips-slot
- Terminals: brass plated • Width (W): 1.12"
- .437" (11 mm) centers • Height (H): .50"
- 1100Vrms; 20A ratings; for 14-16 AWG wires
- Open block design
- UL/CSA/CE approved



Part Number	Product Number	Poles	Dimensions A" B"	1	10	50
188699CM	601GP4	4	2.19 2.50	\$1.69	\$1.49	\$1.35
188681CM	601GP6	6	3.06 3.38	2.39	2.19	1.89
188672CM	601GP8	8	3.94 4.25	2.95	2.75	2.49
188664CM	601GP10	10	4.81 5.13	3.49	3.25	2.95
188701CM	601GP12	12	5.69 6.00	5.49	4.95	3.95



## Terminals

Panduit terminals are designed for fast, consistent installation and lasting reliability.

### 489256CM: High Temp. Non-Insulated Ring Terminal

- 600V; 343°C (650°F) operating temperature
- Brazed seam assures a reliable crimp
- Internally beveled for easy wire insertion
- Extended length is easier to crimp and assures good quality wire contact



### 489361CM/489379CM/489387CM: Nylon Insulated Funnel Entry Ring Terminal

- 600V; 105°C (221°F) operating temperature
- Insulation may be crimped to the wire insulation to add strain relief and resistance to pull-out
- Metal insulation crimp provides double crimp with insulation grip sleeve for high vibration or conductor strain environments
- Funnel entry speeds wire insertion

### 489221CM: Supra-Grip™ Nylon Fully Insulated Female Disconnect

- Integrated metal insulation grip to meet double crimp requirements
- Internal wire barrel serrations for maximum wire tensile strength
- Color coded insulation
- Funnel entry

Part No.	Product No.	Description	Minimum order 1000 pieces	
			1000	5000
489256CM	P14-6RHT6-M	16-14 AWG; #6	\$ .117	\$ .111
489361CM	PNF10-10R-D	12-10 AWG; #10	.311	.295
489379CM	PNF14-6R-C	16-14 AWG; #6	.63	.56
489387CM	PNF18-10R-M	22-18 AWG; #10	.23	.22
489221CM	DNG14-250FB-M	16-14 AWG; .250"	.181	.172

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## DIN Rail-Mounted Terminal Block & DIN Rail

Foot snaps onto standard DIN and DIN 2 rails. Terminals are positively retained on rails, but can be removed without disturbing adjacent units.

- Molded thermoplastic
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A
- 14-22 AWG



Sold in 1 meter (39") length

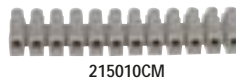
237083CM: 35mm W x 7.5mm D

Part No.	Product No.	Type	1	10	100
237083CM	41296.2	SR2.5	\$ .89	\$ .79	\$ .69
248735CM	2094.0	TS35 x 7.5	6.79	5.45	4.10



## European Terminal Blocks

- Number of poles: 12
- 1.2mm raised base
- Working temp.: 230°F (110°C)
- Voltage: 600V
- Material: Polyamide 66 (nylon 66), UL94V-2, natural
- Terminal insert: brass metal alloy, nickel plated
- Wire protector: stainless steel spring
- Screws: zinc plated, yellow chromed



215010CM

Part No.	Cross Ref.	Amps	AWG	1	10	100
215010CM	PA8H	20A	12-22	\$1.79	\$1.59	\$1.29
215028CM	PA10H	30A	10-22	1.89	1.69	1.39
215036CM	PA12H	35A	10-22	2.59	2.29	1.99



## Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow
- Size: 9.0"L x 2.0"W



Part No.	Product No.	1	10	25
72995CM	HT303	\$18.95	\$17.06	\$15.10

## 171-Pc. Solderless Terminal Kit

Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male spade	22-16	1/4"	10	Ring term.	16-14	#10
10	Male spade	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. spade	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. spade	16-14	1/4"	10	Spade term.	16-22	#6
10	Ring term.	22-16	#6	10	Spade term.	16-22	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	16-14	#10	10	Butt conn.	16-22	-
15	Ring term.	16-14	#6	10	Butt conn.	16-14	-
10	Ring term.	16-14	#8	5	Butt conn.	12-10	-

170 Terminals and Connectors!

- Clear, hinged plastic box
- Use crimping tool P/N 72995CM, pg 158

Part No.	Description	1	10	25
10989CM	Terminal kit	\$8.95	\$7.95	\$7.25

## 3M Electrical Connector Kits



Part No.	Description	1	10	25
651954CM	79 pc. electrical kit	\$17.25	\$15.29	\$13.73
651962CM	48 pc. 16-14AWG term. kit	9.39	8.35	7.49
651989CM	28 pc. 12-10AWG term. kit	8.99	7.99	7.19
651997CM	Asst. quick connect kit	7.99	7.16	6.43
652009CM	Asst. splice connect kit	8.99	7.99	7.19
652041CM	Heatshrink splice kit	14.89	13.19	11.85



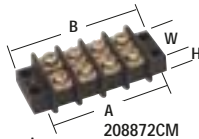
## Metric Double Row Terminal Blocks

- Body material: black thermoplastic (UL94V-0)
- 12-18 AWG
- Terminals: brass tin plated
- Screws: steel nickel plated
- Insulation withstanding voltage: 2000VAC min.
- Insulation resistance: 1000MΩ or more at 500VDC



### 10A @ 600V

- Screw size: M3.0
- Width (W): 19.5mm
- Height (H): 11.9mm



Part Number	Cross Ref. No.	Poles	Dimensions A B	1	10	50
208856CM	GGE-10-4P	4	47.5 55	\$ .99	\$ .89	\$ .79
208864CM	GGE-10-6P	6	64.5 74	1.39	1.25	1.15
208872CM	GGE-10-8P	8	95 102.5	1.69	1.59	1.49
208899CM	GGE-10-10P	10	104.5 112	2.39	2.15	1.89
208881CM	GGE-10-12P	12	123.5 131	2.79	2.49	2.25

### 20A @ 600V

- Screw size: M3.5
- Width (W): 22.0mm
- Height (H): 13.2mm



207571CM

Part Number	Cross Ref. No.	Poles	Dimensions A B	1	10	50
207538CM	GGE-20-4P	4	54.5 63.5	\$1.39	\$1.25	\$1.10
207546CM	GGE-20-6P	6	76.3 85.3	1.99	1.79	1.59
207554CM	GGE-20-8P	8	98.1 107.1	2.59	2.35	2.15
207562CM	GGE-20-10P	10	119.9 128.9	3.29	2.99	2.69
207571CM	GGE-20-12P	12	141.7 150.7	3.59	3.19	2.79

## Terminal Block Jumper

For connecting between adjacent terminals or alternate terminals. Use with Series 140 terminal blocks, pg 157.



- 2-position
- Brass with nickel plating

Part No.	Product No.	1	25	50
659382CM	140J-1	\$ .22	\$ .196	\$ .182



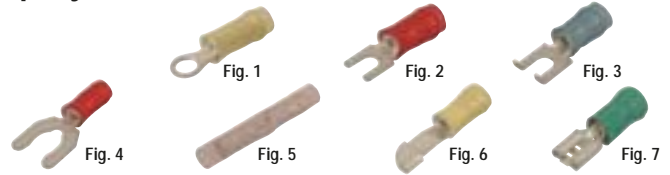


## P.I.D.G. (Pre-Insulated Diamond Grip) Nylon Insulated Terminals

Designed for complete and uniform reliability. Nylon insulated terminals feature a tin plated copper body with a copper sleeve fitted over the terminal barrel to provide maximum insulation support.

- High dielectric strength
- Funnel ramp entry
- Copper support sleeve for insulation
- Temperature rating: 105°C
- Meets MIL-T-7928

**NEW**



### Ring Tongue Terminals

\* Minimum order 10 pieces

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302594CM	323912R	1	#2	26-22	Yellow	.21	\$.208	\$.186
302607CM	323914R	1	#4	26-22	Yellow	.22	.215	.192
302615CM	323915R	1	#6	26-22	Yellow	.21	.208	.186
302623CM	323916R	1	#8	26-22	Yellow	.26	.251	.224
302631CM	324075R	1	#10	26-22	Yellow	.29	.283	.171
302640CM	328657R	1	#2	22-16	Red	.21	.208	.186
302658CM	31880R	1	#4	22-16	Red	.21	.19	.15
527321CM	36149R	1	#6	22-16	Red	.25	.213	.176
302666CM	36152R	1	#6	22-16	Red	.20	.145	.133
527312CM	51863R	1	#6	22-16	Red	.20	.162	.135
302674CM	31890R	1	#8	22-16	Red	.20	.15	.133
526707CM	320551R	1	#8	22-16	Red	.20	.13	.122
527275CM	36153	1	#10	22-16	Red	.20	.148	.134
302682CM	36154R	1	#10	22-16	Red	.20	.15	.133
302691CM	31894R	1	1/4"	22-16	Red	.26	.251	.172
302703CM	31895R	1	5/16"	22-16	Red	.25	.242	.215
302711CM	31897R	1	3/8"	22-16	Red	.31	.305	.176
302720CM	320619R	1	#6	16-14	Blue	.20	.145	.133
527267CM	51864-1R	1	#8	16-14	Blue	*	.186	.142
302738CM	320565R	1	#8	16-14	Blue	.20	.145	.133
302746CM	36160R	1	#10	16-14	Blue	.20	.145	.133
527241CM	51864-2R	1	#10	16-14	Blue	*	.124	.111
302754CM	321045R	1	1/4"	16-14	Blue	.20	.169	.162
302762CM	328998R	1	5/16"	16-14	Blue	.25	.244	.167
302771CM	328999R	1	3/8"	16-14	Blue	.29	.284	.172
302789CM	35149R	1	#6	12-10	Yellow	.28	.182	.17
302797CM	35108R	1	#8	12-10	Yellow	.20	.189	.171
527224CM	320568R	1	#8	12-10	Yellow	.20	.175	.155
302800CM	35109R	1	#10	12-10	Yellow	.20	.189	.171
527208CM	36161R	1	#10	12-10	Yellow	*	.131	.119
302818CM	35110R	1	1/4"	12-10	Yellow	.33	.327	.218
302826CM	35111R	1	5/16"	12-10	Yellow	.33	.327	.218
302834CM	35112R	1	3/8"	12-10	Yellow	.33	.327	.218
302842CM	35151R	1	1/2"	12-10	Yellow	.52	.286	.268

### Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302851CM	328394R	2	#2	22-16	Red	.21	\$.208	\$.185
302869CM	327717R	2	#4	22-16	Red	.26	.253	.225
302877CM	34541R	2	#6	22-16	Red	.20	.145	.133
302885CM	32053R	2	#8	22-16	Red	.21	.208	.185
302893CM	32054R	2	#10	22-16	Red	.21	.208	.175
302906CM	35559R	2	#6	16-14	Blue	.21	.208	.146
302914CM	32059R	2	#8	16-14	Blue	.21	.208	.185
302922CM	321233R	2	#8	16-14	Blue	.24	.236	.21
302931CM	32060R	2	#10	16-14	Blue	.24	.236	.146
302949CM	326859R	2	#6	12-10	Yellow	.42	.416	.37
302957CM	32588R	2	#8	12-10	Yellow	.31	.309	.275
302965CM	32589R	2	#10	12-10	Yellow	.30	.256	.24

### Flanged Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
302973CM	324608R	3	#2	22-16	Red	.28	\$.273	\$.243
302981CM	32562R	3	#6	22-16	Red	.23	.227	.158
302990CM	32498R	3	#8	22-16	Red	.50	.451	.438
303001CM	320861R	3	#6	16-14	Blue	.24	.23	.159
303010CM	320862R	3	#8	16-14	Blue	.24	.23	.204
303028CM	320863R	3	#10	16-14	Blue	.23	.224	.199
303036CM	325150R	3	#6	12-10	Yellow	.59	.493	.461
303044CM	32510R	3	#8	12-10	Yellow	.25	.223	.19
303052CM	324015R	3	#10	12-10	Yellow	.39	.288	.269

### Short Spring Spade Tongue Terminals

Part No.	Product No.	Fig.	Stud Size	Wire (AWG)	Color	1	10	100
303061CM	82927R	4	#4	22-16	Red	.22	\$.209	\$.186
303079CM	52929R	4	#6	22-16	Red	.25	.238	.164
303087CM	52930R	4	#8	22-16	Red	.25	.238	.212
303095CM	52931R	4	#10	22-16	Red	.35	.345	.258
303108CM	52935R	4	#6	16-14	Blue	.25	.238	.164
303116CM	52936R	4	#8	16-14	Blue	.28	.27	.24
303124CM	52937R	4	#10	16-14	Blue	.28	.27	.24
303132CM	52941R	4	#6	12-10	Yellow	.32	.31	.248
303141CM	52942R	4	#8	12-10	Yellow	.36	.35	.282
303159CM	52943R	4	#10	12-10	Yellow	.36	.351	.282

### Butt & Knife Disconnect Splices

Part No.	Product No.	Fig.	Description	Wire (AWG)	Color	1	10	100
303167CM	323994R	5	Butt	26-22	Yellow	\$.39	\$.339	\$.317
527574CM	323975R	5	Butt	24-20	Natural	.32	.293	.266
303175CM	320559R	5	Butt	22-16	Red	.50	.496	.356
303183CM	320562R	5	Butt	16-14	Blue	.57	.496	.295
303191CM	320570R	5	Butt	12-10	Yellow	.85	.82	.499
303204CM	32446R	6	Knife disconn.	22-16	Red	.42	.411	.27
303212CM	32448R	6	Knife disconn.	16-14	Blue	.42	.411	.27
303221CM	35762R	6	Knife disconn.	12-10	Yellow	1.45	1.24	1.11

### Fast-On Receptacles



Part No.	Product No.	Fig.	Size (in.)	Wire (AWG)	Color	1	10	100
303239CM	60894-1R	7	.110 x .032	22-18	Natural	\$.24	\$.232	\$.168
303247CM	640923-1R	7	.110 x .020	22-18	Red	.22	.214	.163
303255CM	640917-1R	7	.187 x .020	22-18	Red	.20	.162	.13
303263CM	640909-1R	7	.205 x .020	22-18	Red	.22	.214	.163
303271CM	640911-1R	7	.205 x .032	22-18	Red	.22	.214	.163
303280CM	640903-1R	7	.250 x .032	22-18	Red	.20	.16	.13
525034CM	640903-4R	7	.250 x .032	22-18	Red	.20	.143	.13
303298CM	640929-1R	7	.110 x .020	16-14	Blue	.22	.214	.163
303301CM	640919-1R	7	.187 x .020	16-14	Blue	.22	.214	.163
303319CM	640915-1R	7	.205 x .032	16-14	Blue	.22	.214	.163
303327CM	640905-1R	7	.250 x .032	16-14	Blue	.20	.162	.16
525042CM	640905-2R	7	.250 x .032	16-14	Blue	.20	.116	.105
303335CM	42844-1R	7	.250 x .032	14-12	Green	.31	.30	.215
303343CM	640907-1R	7	.250 x .032	12-10	Yellow	.25	.237	.166

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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242

## AMP

## Fast-On Insulated Terminals

- One-piece fully insulated fast-on receptacle/tab with insulation crimp prevents shock and short hazards
- Designed for full mating with a variety of tabs and receptacles including those with shoulders
- Funnel wire entry and wire stop
- Assemblies contain wire size and tab size designation as well as color-coded for wire gauge designation



Prepackaged: order in increments of 100

## Ultra-Fast Fully Insulated Receptacle Assembly (0.110"/0.125")

Part No.	Product No.	Width	AWG	Color	Terminal	100	500	1000
524091CM	2-520083-2A*	.239"	22-18	Red	Brass, tin plated	..... \$ .13	..... \$ .114	..... \$ .105
524103CM	2-520084-2A	.239"	22-18	Red	Brass, tin plated	..... .131	..... .117	..... .106

## Ultra-Fast Fully Insulated Receptacle Assembly (0.187")

Part No.	Product No.	Width	AWG	Color	Terminal	100	500	1000
524189CM	2-520181-2A*	0.300"	22-18	Red	Brass, tin-plated	..... \$ .12	..... \$ .114	..... \$ .104
524197CM	2-520182-2A	0.300"	22-18	Red	Brass, tin-plated	..... .12	..... .114	..... .105
524226CM	2-520194-2A	0.300"	22-18	Red	Brass, tin-plated	..... .15	..... .143	..... .11
524306CM	2-520335-2A	—	22-18	Red	Brass, tin-plated	..... .20	..... .178	..... .157
526820CM	3-350816-2A	0.300"	16-14	Blue	Brass, tin-plated	..... .124	..... .109	..... .094

## Ultra-Fast Fully Insulated Tab Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	100	500	1000
524111CM	2-520102-2A*	0.487"	22-18	Red	Brass, tin-plated	..... \$ .20	..... \$ .185	..... \$ .168
524120CM	2-520103-2A	0.487"	22-18	Red	Brass, tin-plated	..... .19	..... .171	..... .159
524138CM	3-520106-2A*	0.487"	16-14	Blue	Brass, tin-plated	..... .19	..... .168	..... .146
524146CM	3-520107-2A	0.487"	16-14	Blue	Brass, tin-plated	..... .19	..... .165	..... .158

## Solder, Fast-On Tab, PC Mount (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	100	500	1000
526619CM	62409-1A	0.250"	—	—	Tin over copper	..... \$ .06	..... \$ .054	..... \$ .42

## Ultra-Fast Fully Insulated Receptacle Assembly (0.250")

Part No.	Product No.	Width	AWG	Color	Terminal	100	500	1000
524154CM	2-520128-2A*	—	22-18	Red	Flag Type	..... \$ .29	..... \$ .275	..... \$ .251
524200CM	2-520183-2A*	0.373"	22-18	Red	Brass, tin plated	..... .114	..... .105	..... .094
524218CM	2-520184-2A	0.373"	22-18	Red	Brass, tin-plated	..... .12	..... .11	..... .196
524293CM	2-520264-2A	0.373"	22-18	Red	Brass, tin plated	..... .152	..... .143	..... .119
524314CM	2-520405-2A*	0.373"	22-18	Red	Brass, tin plated	..... .152	..... .11	..... .107
524331CM	2-520407-2A	0.373"	22-18	Red	Brass, tin-plated	..... .17	..... .161	..... .152
527179CM	3-520819-2A*	0.373"	16-14	Blue	Brass, tin-plated	..... .133	..... .096	..... .09
526838CM	3-350820-2A	0.373"	16-14	Blue	Brass, tin-plated	..... .13	..... .123	..... .114
524162CM	3-520140-2A*	0.373"	16-14	Blue	Brass, tin-plated	..... .11	..... .12	..... .10
524171CM	3-520141-2A	0.373"	16-14	Blue	Brass, tin-plated	..... .20	..... .144	..... .124
524322CM	3-520406-2A*	0.373"	16-14	Blue	Brass, tin-plated	..... .171	..... .161	..... .152
524349CM	3-520408-2A	0.373"	16-14	Blue	Brass, tin-plated	..... .17	..... .153	..... .137
524365CM	4-520447-2A*	0.373"	12-10	Yellow	Brass, tin-plated	..... .13	..... .129	..... .116
524373CM	4-520448-2A	0.373"	12-10	Yellow	Brass, tin-plated	..... .25	..... .22	..... .164

## Vinyl Insulated Solderless Terminals

- Insulation thickness: .030"
- Temperature to 105°C
- Use with crimping tool P/N 72995CM, pg 158
- Sold in increments of 10, 100 or 1000

## Ring &amp; Spade Solderless Terminals

Part No.	Description	Stud Size	Wire (AWG)	Color	10	100	1000
103683CM	Ring solderless	#6	22-16	Red	..... \$ .11	..... \$ .07	..... \$ .05
103587CM	Spade solderless	#6	22-16	Red	..... .13	..... .06	..... .05
103595CM	Spade solderless	#8	16-14	Blue	..... .12	..... .068	..... .06

## Disconnect Solderless Terminals

Part No.	Description	Blade Size	Wire (AWG)	Color	10	100	1000
106921CM	Female	.187"	22-16	Red	..... \$ .12	..... \$ .07	..... \$ .05
103667CM	Female	.25"	22-16	Red	..... .12	..... .07	..... .05
109111CM	Female w/ hood	.25"	22-16	Red	..... .17	..... .11	..... .055

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. \*Tape & reel



## Insulkrimp® Solderless Terminals

- Designed for dense packaging requirements; the profile height is lower than other competing products on the market
- Integrity of mechanical/electrical performance is assured for wire secureness, operating temperatures, tensile strength, dielectric parameters and insertion/extraction forces by meeting UL 310 standards (Listed under UL File No. E79133)
- Color-coded translucent insulator allows easy identification of terminal size and wire gauge: red for 18 to 22 AWG, blue for 14 to 16 AWG and yellow for both 24 to 26 AWG and 10 to 12 AWG (wire size is also stamped on the terminal and visible through the insulator)
- Translucent "see-through" insulator provides fast, on-line quality control inspection by allowing a quick visual check of the wire/terminal assembly
- Terminal's funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back
- A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires

## Female Quick Disconnect

- Material: brass

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Color	Tab Size (in.)	100	500	1000
489627CM	19003-0001-C	18-22	Red	0.250 x 0.032	..... \$ .133	..... \$ .105	..... \$ .105
489635CM	19003-0011-C	18-22	Red	0.187 x 0.020	..... .15	..... .133	..... .105
489643CM	19003-0017-C	18-22	Red	0.187 x 0.032	..... .11	..... .105	..... .086
489651CM	19003-0024-C	18-22	Red	0.110 x 0.020	..... .11	..... .105	..... .086
489660CM	19003-0030-C	18-22	Red	0.110 x 0.032	..... .10	..... .095	..... .076
489678CM	19003-0040-C	14-16	Blue	0.250 x 0.032	..... .10	..... .087	..... .076
489694CM	19003-0050-C	14-16	Blue	0.187 x 0.020	..... .11	..... .095	..... .086
489715CM	19003-0056-C	14-16	Blue	0.187 x 0.032	..... .155	..... .124	..... .095
489686CM	19003-0044-C	14-16	Blue	0.250 x 0.032	..... .16	..... .14	..... .112

## Ring Tongue

- Material: copper
- PVC insulation

Part No.	Product No.	AWG	Stud Size	Width (in.)	100	500	1000
490610CM	19070-0008-C	24-26	3-4	0.235	..... \$ .11	..... \$ .108	..... \$ .105
490687CM	19070-0033-C	18-22	3/8	1.259	..... .19	..... .165	..... .132
490652CM	19070-0015-C	18-22	10	0.896	..... .14	..... .114	..... .095
490644CM	19070-0013-C	18-22	8	0.896	..... .09	..... .086	..... .076
490708CM	19070-0044-C	18-22	8	0.807	..... .11	..... .10	..... .09
490695CM	19070-0040-C	18-22	5-6	0.807	..... .143	..... .114	..... .095
490599CM	19070-0005-C	18-22	1-2	0.709	..... .11	..... .096	..... .077
490601CM	19070-0007-C	18-22	3-4	0.709	..... .11	..... .096	..... .077
490628CM	19070-0009-C	18-22	5-6	0.709	..... .11	..... .105	..... .095
490661CM	19070-0023-C	18-22	1/4	0.477	..... .15	..... .133	..... .105
514802CM	19070-0038-C	18-22	3-4	0.264	..... .11	..... .10	..... .09
490724CM	19070-0069-C	14-16	5-6	0.785	..... .14	..... .114	..... .095
490732CM	19070-0071-C	14-16	8	0.785	..... .11	..... .105	..... .095
514829CM	19070-0065-C	14-16	1-2	0.260	..... .11	..... .10	..... .09
490741CM	19070-0075-C	14-16	1/4	1.062	..... .15	..... .124	..... .095
490759CM	19070-0078-C	14-16	5/16	1.062	..... .11	..... .105	..... .095
490767CM	19070-0083-C	14-16	5-6	0.865	..... .11	..... .105	..... .095
490775CM	19070-0086-C	14-16	8	0.865	..... .095	..... .086	..... .076
490783CM	19070-0090-C	14-16	10	0.865	..... .14	..... .114	..... .095
490791CM	19070-0099-C	14-16	8	0.921	..... .11	..... .105	..... .095
490804CM	19070-0102-C	14-16	10	0.921	..... .114	..... .105	..... .086
490812CM	19070-0109-C	10-12	1/2	0.571	..... .15	..... .143	..... .133
490821CM	19070-0121-C	10-12	8	1.076	..... .13	..... .124	..... .105
490839CM	19070-0123-C	10-12	10	1.076	..... .13	..... .105	..... .086
514845CM	19070-0130-C	10-12	10	1.243	..... .13	..... .124	..... .114
490847CM	19070-0132-C	10-12	1/4	1.243	..... .14	..... .114	..... .099
490855CM	19070-0136-C	10-12	5/16	1.243	..... .13	..... .124	..... .114
490863CM	19070-0143-C	10-12	5-6	1.032	..... .13	..... .105	..... .086
490871CM	19070-0145-C	10-12	8	1.032	..... .17	..... .143	..... .114
514853CM	19070-0150-C	10-12	1/4	1.347	..... .20	..... .171	..... .143
490880CM	19070-0153-C	10-12	3/8	1.347	..... .20	..... .171	..... .143
490898CM	19070-0155-C	10-12	5/16	1.347	..... .209	..... .171	..... .143

Place your order by 6PM EST for same business-day shipment.



## Insulkrimp® Solderless Terminals (Continued)

Photos on previous page.

## Spade Tongue

- Material: copper
- PVC insulation

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Stud Size	Width (in.)	100	500	1000
502879CM	19144-0001-C	18-22	5-6	0.326	\$.09	\$.086	\$.076
502887CM	19144-0003-C	18-22	8	0.326	.09	.086	.076
502916CM	19144-0015-C	14-16	5-6	0.255	.10	.095	.086
502924CM	19144-0018-C	14-16	5-6	0.305	.10	.086	.067
502932CM	19144-0020-C	14-16	8	0.305	.10	.086	.067
502959CM	19144-0024-C	14-16	8	0.372	.11	.096	.067
502967CM	19144-0026-C	14-16	10	0.372	.14	.114	.095
502975CM	19144-0037-C	14-16	10	0.385	.13	.109	.09
502983CM	19144-0039-C	10-12	8	0.385	.169	.142	.123
502991CM	19144-0042-C	10-12	10	0.385	.13	.109	.091
503003CM	19144-0046-C	10-12	1/4	0.543	.237	.133	.104

## Butt-Splice

- Material: copper
- 503071CM/503100CM: seamless barrel

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Length	100	500	1000
503062CM	19154-0004-C	18-22	0.960	\$.105	\$.086	\$.067
503071CM	19154-0011-C	18-22	1.035	.124	.114	.095
503089CM	19154-0015-C	14-16	0.975	.10	.086	.067
503100CM	19154-0023-C	14-16	1.08	.07	.069	.06
503118CM	19154-0028-C	14-16	1.135	.08	.07	.065

## Step Down Butt Connectors

The perfect solution when 2 wires need to be inserted in one end of a splice and a single wire in the other end.

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Description	100	500	1000
503097CM	19154-0022-C	14-16 to 18-22	Blue w/ red stripe	\$.35	\$.341	\$.337
503126CM	19154-0035-C	10-12 to 14-16	Yellow w/ blue stripe	.43	.399	.38
491946CM	19154-0044-C	8 to 10-12	Red w/ yellow stripe	.58	.55	.539
494856CM	19215-0023-C	10-12 to 14-16	Non-insulated	.57	.466	.361

## Snap Plugs

- Material: copper
- Thickness: 0.032" max.

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Barrel Lgth (in.)	Diameter Max. (in.)	Length (in.)	100	500	1000
490311CM	19034-0009-C	14-16	0.254	0.156	0.890	\$.11	\$.095	\$.086



## Avikrimp® Solderless Terminals

The Avikrimp® version of the Fully Insulated Quick Disconnects gives you the extra advantage of the secure metal support sleeve. These parts fulfill the double crimp (support) requirements of VDE and other DIN specifications.

NEW



489871CM

Prepackaged: order in increments of 100

## Female Quick Disconnect w/ Vibration Support

Part No.	Product No.	AWG	Length	Tab Size (in.)	100	500	1000
490177CM	19019-0004-C	18-22	0.789"	0.110 x 0.032	\$.143	\$.114	\$.095
490169CM	19019-0001-C	18-22	0.789"	0.110 x 0.020	.19	.152	.124
490185CM	19019-0006-C	18-22	0.789"	0.187 x 0.020	.143	.114	.095
490206CM	19019-0012-C	18-22	0.865"	0.250 x 0.032	.171	.143	.114
490231CM	19019-0027-C	14-16	0.789"	0.187 x 0.020	.143	.114	.095
490214CM	19019-0022-C	14-16	0.789"	0.110 x 0.020	.218	.181	.145
490249CM	19019-0028-C	14-16	0.789"	0.187 x 0.032	.143	.114	.095
490257CM	19019-0031-C	14-16	0.865"	0.250 x 0.032	.143	.114	.095
490281CM	19019-0052-C	12-14	0.865"	0.250 x 0.032	.124	.114	.105
490265CM	19019-0037-C	10-12	1.011"	0.250 x 0.032	.15	.134	.129



## Avikrimp® Solderless Terminals (Continued)

## Male Quick Disconnect

NEW

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Length	Tab Size (in.)	100	500	1000
489432CM	19001-0003-C	18-22/red	0.900"	0.187 x 0.020	\$.187	\$.178	\$.169
489441CM	19001-0006-C	14-16/blue	0.960"	0.250 x 0.032	.323	.266	.219
489467CM	19001-0010-C	10-12/yellow	1.080"	0.250 x 0.032	.38	.323	.257

## Female Quick Disconnect

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Length	Tab Size (in.)	100	500	1000
489475CM	19002-0001-C	18-22/red	0.890"	0.250 x 0.032	\$.183	\$.174	\$.165
489491CM	19002-0009-C	18-22/red	0.800"	0.187 x 0.032	.295	.247	.20
489504CM	19002-0013-C	18-22/red	0.800"	0.110 x 0.020	.171	.162	.154
489512CM	19002-0016-C	18-22/red	0.800"	0.110 x 0.032	.15	.143	.136
489521CM	19002-0019-C	18-22/red	0.800"	0.205 x 0.020	.138	.131	.125
489539CM	19002-0021-C	18-22/red	0.800"	0.205 x 0.032	.138	.131	.125
489547CM	19002-0024-C	14-16/blue	0.890"	0.250 x 0.032	.183	.174	.165
489555CM	19002-0028-C	14-16/blue	0.800"	0.187 x 0.020	.295	.247	.20
489563CM	19002-0031-C	14-16/blue	0.800"	0.187 x 0.032	.295	.247	.20
489580CM	19002-0037-C	14-16/blue	0.800"	0.110 x 0.032	.295	.247	.20
489598CM	19002-0040-C	14-16/blue	0.800"	0.205 x 0.020	.138	.131	.125
489601CM	19002-0042-C	14-16/blue	0.800"	0.205 x 0.032	.138	.131	.125
489619CM	19002-0044-C	10-12/yellow	1.040"	0.250 x 0.032	.224	.205	.185

## Snap Plugs

Prepackaged: order in increments of 100

- Material: brass

- Insulation: PVC

NEW

Part No.	Product No.	AWG	Barrel Lgth (in.)	Diameter Max. (in.)	Length (in.)	100	500	1000
490345CM	19039-0001-C	18-22	0.420	0.156	1.01	\$.133	\$.124	\$.114
490361CM	19039-0006-C	14-16	0.420	0.156	1.01	.133	.124	.114
490370CM	19039-0009-C	14-16	0.420	0.180	1.01	.143	.133	.124

## Plugs

Prepackaged: order in increments of 100

- Material: copper
- Thickness: 0.032" max.

490329CM: 0.145" max. wire insulation

490337CM: 0.170" max. wire insulation

Part No.	Product No.	AWG	Barrel Lgth (in.)	Diameter Max. (in.)	Length (in.)	100	500	1000
490329CM	19036-0003-C	18-22	0.254	0.156	0.897	\$.133	\$.124	\$.114
490337CM	19036-0008-C	14-16	0.254	0.156	0.897	.143	.133	.124

## Spade Terminals

NEW

- Material: copper
- Nylon insulation

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Stud Size	Width (in.)	100	500	1000
501622CM	19115-0001-C	18-22	5-6	0.270	\$.19	\$.162	\$.124
501631CM	19115-0003-C	18-22	8	0.300	.133	.124	.105
501665CM	19115-0009-C	18-22	5-6	0.260	.152	.124	.095
501673CM	19115-0012-C	18-22	8	0.320	.133	.124	.114
501690CM	19115-0016-C	14-16	5-6	0.270	.178	.149	.119
501711CM	19115-0020-C	14-16	10	0.338	.126	.12	.114
501702CM	19115-0018-C	14-16	8	0.300	.143	.124	.105
501817CM	19115-0079-C	14-16	8	0.320	.152	.143	.119
501729CM	19115-0024-C	14-16	5-6	0.260	.20	.171	.133
501737CM	19115-0031-C	14-16	10	0.340	.196	.163	.131
501745CM	19115-0033-C	10-12	5-6	0.300	.19	.162	.112
501753CM	19115-0035-C	10-12	8	0.330	.224	.187	.149
501809CM	19115-0048-C	10-12	10	0.340	.237	.198	.171

## Fully Insulated Flag Quick Disconnects

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Tab Size	Width (in.)	100	500	1000
489854CM	19007-0001-C	18-22	.250 x 0.032	0.390	\$.141	\$.135	\$.129
489871CM	19007-0021-C	14-16	.250 x 0.032	0.390	.127	.121	.115
489889CM	19007-0029-C	14-16	.187 x 0.020	0.390	.127	.121	.115
489897CM	19007-0040-C	10-12	.250 x 0.032	0.390	.266	.247	.228

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## Krimptite™ Solderless Terminals

This Krimptite is the basic barrel style that is non-insulated and features a quality, one-piece design. It is also the most economical style and has the greatest variety of uses where special features are not required.

**NEW**



### Spade Terminal

- Material: copper
- Non-insulated

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Stud Size	Width (in.)	100	500	1000
502836CM	19141-0098-C	24-26	4	0.213 .....	\$.029	\$.027	\$.025
502705CM	19141-0022-C	18-22	8	0.326 .....	.034	.032	.03
502692CM	19141-0020-C	18-22	5-6	0.326 .....	.034	.032	.03
502748CM	19141-0058-C	14-16	8	0.305 .....	.029	.027	.025
502730CM	19141-0056-C	14-16	5-6	0.305 .....	.029	.027	.025
502801CM	19141-0085-C	10-12	10	0.385 .....	.064	.061	.058

### Uninsulated Flag Terminals

- Use with 0.250 x 0.032 flags
- No vibration support

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Barrel Lgth (in.)	Diameter (in.)	Max. Length (in.)	100	500	1000
489900CM	19008-0038-C	12-14	0.312	0.319	0.621 .....	\$.152	\$.143	\$.124



## Versakrimp™ Solderless Terminals

When the butted seam Krimptite barrel is bonded with a special brazing alloy, it becomes a Versakrimp barrel. These brazed-seam barrel terminals and splices will not open under conditions of stress or wire pull. As versatile as it is tough, it can be crimped under most adverse conditions by many types of tooling. The Versakrimp is ideal for hard-to-crimp solid and stranded wires.

**NEW**



### Butt Splice

- Seamless barrel
- Material: copper

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Inner Diam. (in.)	Outer Diam. (in.)	Length (in.)	100	500	1000
494469CM	19215-0009-C	18-22	0.059	0.130	0.675 .....	\$.067	\$.059	\$.041
494477CM	19215-0018-C	14-16	0.091	0.160	0.675 .....	.114	.105	.086
494485CM	19215-0028-C	10-12	0.138	0.223	0.827 .....	.124	.114	.095

### Butt Splice w/ Seamless Barrel

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Inner Diam. (in.)	Outer Diam. (in.)	Length (in.)	100	500	1000
494493CM	19215-0034-V	8	0.165	0.295	0.864 .....	\$ .181	\$ .171	\$ .162



## Fully Insulated Couplers

These fully insulated nylon couplers are precision engineered, allowing the female terminal to fit precisely into the corresponding male housing, which provides a fully insulated inline splice. This splice may be connected and disconnected without damage to the nylon insulation.



**NEW**

### Male Couplers

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Color	Tab Size (in.)	100	500	1000
489723CM	19004-0001-C	18-22	Red	0.250 x 0.032 .....	\$.152	\$.133	\$.114
489731CM	19004-0005-C	14-16	Blue	0.250 x 0.032 .....	.104	.099	.094

### Female Couplers

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Color	Tab Size (in.)	100	500	1000
489758CM	19005-0001-C	18-22	Red	0.250 x 0.032 .....	\$.124	\$.114	\$.095
489766CM	19005-0005-C	14-16	Blue	0.250 x 0.032 .....	.095	.09	.086
489774CM	19005-0010-C	10-12	Yellow	0.250 x 0.032 .....	.219	.181	.143

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with suggestions for new products  
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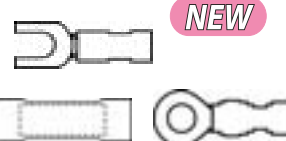


## Perma-Seal™ Solderless Terminals

Perma-Seal terminals and splices give you long-lasting, moisture-proof connections that withstand water, salt, condensation, corrosion and heat, all of which cause serious problems for conventional, unsealed splices.

The inner wall of the heat-shrinkable

Perma-Seal sleeve is lined with a special hot-melt adhesive that is inert at room temperature, permitting wires to be inserted easily into the splices and terminals. As the sleeve is heated, the adhesive melts and flows under pressure from the tubing. The tough sleeve of Perma-Seal splices and terminals resists abrasion and cutting. This protection helps to maintain the insulation and sealing properties even in the most hostile environments.



**NEW**

### Spade Terminals

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Stud Size	100	500	1000
491225CM	19164-0007-C	18-22	8 .....	\$.399	\$.361	\$.342
491196CM	19164-0006-C	18-22	6 .....	.361	.323	.304
491188CM	19164-0072-C	10-12	10 .....	.74	.513	.343
491321CM	19164-0162-C	10-12	8 .....	.52	.48	.46
491217CM	19164-0069-C	10-12	6 .....	.74	.513	.343
491250CM	19164-0073-C	10-12	1/4 .....	.74	.61	.488
491170CM	19164-0030-C	14-16	10 .....	.58	.485	.38
491233CM	19164-0029-C	14-16	8 .....	.58	.485	.38
491209CM	19164-0028-C	14-16	6 .....	.58	.485	.38

### Ring Terminals

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Stud Size	100	500	1000
490986CM	19164-0003-C	18-22	10	.399	.361	.342
491065CM	19164-0086-C	18-22	8	.399	.361	.342
491031CM	19164-0085-C	18-22	6	.399	.361	.342
491081CM	19164-0004-C	18-22	1/4	.66	.543	.435
491111CM	19164-0005-C	18-22	3/8	.65	.541	.433
490994CM	19164-0034-C	14-16	10	.418	.399	.38
491049CM	19164-0033-C	14-16	8	.418	.399	.38
491014CM	19164-0032-C	14-16	6	.418	.399	.38
491145CM	19164-0027-C	14-16	5/16	.69	.57	.456
491006CM	19164-0065-C	10-12	10	.447	.409	.38
491057CM	19164-0062-C	10-12	8	.447	.409	.38
491102CM	19164-0066-C	10-12	1/4	.447	.409	.38
491137CM	19164-0068-C	10-12	3/8	.74	.513	.343
491153CM	19164-0067-C	10-12	5/16	.74	.61	.488

### Quick Connect Couplers

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	Gender	Tab Size (in.)	100	500	1000
490951CM	19164-0015-C	18-22	M	0.250" x 0.032" .....	\$ .399	\$ .361	\$ .342
490927CM	19164-0017-C	18-22	F	0.250" x 0.032" .....	.58	.485	.38
490960CM	19164-0048-C	14-16	M	0.250" x 0.032" .....	.59	.494	.371
490935CM	19164-0050-C	14-16	F	0.250" x 0.032" .....	.399	.361	.342
490978CM	19164-0075-C	10-12	M	0.250" x 0.032" .....	.76	.64	.505
490943CM	19164-0076-C	10-12	F	0.250" x 0.032" .....	.76	.64	.505

### Butt Splice

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	100	500	1000
491305CM	19164-0013-C	18-22	\$.399	\$.361	\$.342
491313CM	19164-0044-C	14-16	.399	.361	.342
492017CM	19164-0056-C	10-12	.46	.42	.39
491989CM	19164-0079-C	8	1.42	1.18	.91

### Butt Splice Parallel Solder

Prepackaged: order in increments of 100

Part No.	Product No.	AWG	100	500	1000
491330CM	19164-0163-C	18-22	.....\$ .64	.....\$ .61	.....\$ .58
491971CM	19164-0164-C	14-16	......377	......359	......342

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## 3M Spring Connectors



**285683CM:** 2#22 to 2#12AWG, orange with blue skirt; replaces the orange, blue, and gray wire nut style connectors as well as 70% of the yellow wire nut and wing style connectors  
**285691CM:** 2#18 to 2#8 to 5#12 AWG, red with yellow skirt, replaces both red and yellow wing style connectors  
**285704CM:** 4#14 to 2#6 to 3#8 AWG, blue with gray skirt, covers both the large blue and gray connectors  
 • Minimum order 10 pieces

Part No.	Product No.	10	100	500
285683CM	3M O/B+	\$ .084	\$ .075	\$ .071
285691CM	3M R/Y+	.132	.106	.10
285704CM	3M B/G+	.41	.37	.32

## Wire Connectors



• Material: UL approved nylon 66, 94V2  
 • Quick and secure method to splice control wires  
 • Strip wire before application • Twist on type  
 • Material: PVC with metal spring, except  
 P/N 182449CM nylon 66, 94-2 and  
 P/N 140716CM PE - metal inside  
**182449CM:** UL/CSA approved  
 • Minimum order 10 pieces

Part No.	Description	Color	10	100	1000
182449CM	Crimp 16-14 AWG	Nat. ....	\$ .06	\$ .055	\$ .049
182511CM	Wire nut 16 AWG	Blue ....	.045	.04	.035
140716CM	Wire IDC 22-18 AWG	Red ....	.15	.14	.10

\* Requires crimping tool (P/N 72995CM, pg 158)

## Telecom Splice Connectors

• Provides clean, solid, and rapid connection of wires to keep communication lines free of noise  
 • Available to handle a wide range of conductor sizes



**169754CM:** Y-type

• Minimum order 10 pieces

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169747CM	Yellow	22-26	2	\$ .11	\$ .10	\$ .08
169754CM	Red	19-26	3Y	.15	.14	.12

## 3M Scotchlok™ IDC Communications Connector

Used for tap splicing voice and data communication cables with solid copper single-conductor wires.  
 • 25 pieces per pkg.



Part No.	Product No.	Description	1	10	25
652033CM	03721	Yellow	\$6.99	\$6.25	\$5.61

## 3M Connector Crimp Tool

This E-9Y Scotchlok connector crimp tool is used for crimping Scotchlok IDC telecom splices.



Part No.	Description	1	5	10
652244CM	Crimp tool	\$34.25	\$32.61	\$30.98

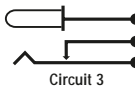
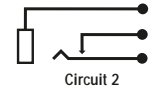
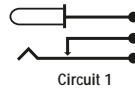
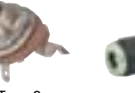
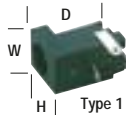
## Male & Female Power Jacks

- Use with mating power plugs, below
- Dimensions do not include barrel

Mounting	Code
Panel	C
PCB	D
Panel & PCB	E
Cable	F

Terminals	Code
Solder eyelet	A
PC board	B

**Quantity SAVE**



Part Number	Cross Ref. No.	Dimensions H x W x D (mm)	Type/ Mount	Circuit/ Terminal	Mating Plug (below)	Pricing			
						1	10	100	1000

### 1.3 mm Male Jacks

101194CM	PP024	6.0 x 6.0 x 9.0	7/D	1/B	1.3 mm female	\$ .62	\$ .48	\$ .44	\$ .36
265421CM	420ECS	7.3 x 5.0 x 11.5	1/D	1/B	1.3 mm female	.69	.55	.49	.45

### 2.1 mm Male Jacks

101178CM	PP014	10.9 x 9.0 x 14.5	1/D	1/A	2.1 mm female	\$ .49	\$ .44	\$ .39	\$ .35
137672CM	PP013	10.9 x 9.0 x 14.5	4/D	3/A	2.1 mm female	.40	.36	.32	.29
151589CM	DPJ-021A	13.0 x 12.6 Dia.	6/C	1/A	2.1 mm female	1.09	.93	.70	.65
151554CM	DPJ-026	15.1 x 8.0 Dia.	5/E	1/A	2.1 mm female	1.49	1.25	1.05	.89
159610CM	PJ1014A	35.8 x 12.6 Dia.	9/F	3/A	2.1 mm female	1.49	1.25	1.09	.89

### 2.5 mm Male Jacks

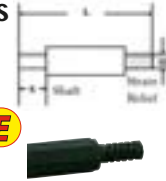
207714CM	HEC0470	11.0 x 9.0 x 14.5	1/D	1/B	2.5 mm female	\$ .45	\$ .35	\$ .29	\$ .25
101186CM	PP014A	11.0 x 9.0 x 14.5	1/D	1/A	2.5 mm female	.59	.53	.42	.32
151562CM	DPJ-026A	15.1 x 8.0 Dia.	5/E	1/A	2.5 mm female	1.49	1.24	1.13	.99
159505CM	PJ1015A	35.8 x 12.6 Dia.	9/F	3/A	2.5 mm female	1.39	1.25	1.13	1.01
202358CM	HD2388	17.0 x 12.0 Dia.	6/C	3/A	2.5 mm female	1.09	.98	.88	.79

### 3.5 mm Female Jacks

101143CM	PJ0352	10.0 x 10.0 x 18.5	2/E	2/A	3.5 mm male	\$ .35	\$ .32	\$ .25	\$ .19
109495CM	PJ035PM	10.5 x 9.0 x 8.8	3/C	2/A	3.5 mm male	.45	.40	.36	.27
165729CM	PJ0354	8.9 x 5.7 Dia.	8/C	3/A	3.5 mm male	.69	.59	.49	.39

## JAMECO ValuePro Male & Female Power Plugs

- Use with mating power jacks found in table, above
- Solder eyelets 1mm diameter
- Threaded screw-on housing (strain relief)
- Use with AC/DC wall adapters, pgs 240-243
- Shield crimp tabs
- Use 24 AWG 2 conductor wire, P/N 100280CM, to make custom length power cables, pg 104



**SALE**

Strain Relief (A)

Female Right Angle (B)

Hard Plastic Strain Relief (C)

Part Number	Cross Ref. No.	Description Plug ID x OD (mm)	Dimensions (mm) S (shaft) x L x ID (strain relief)	Type	Pricing			
					1	10	100	1000

### Female Plugs

71191CM	PP137	1.3 x 3.5	9.6 x 43.9 x 4.8 (black)	1/A	\$ .79	\$ .71	\$ .65	\$ .59
191484CM	PP049W	2.1 x 5.5	9.6 x 43.9 x 4.5 (white)	1/A	.69	.62	.56	.50
28759CM	PP049	2.1 x 5.5 (P205)	8.5 x 41.4 x 4.6 (black)	1/A	.59	.49	.39	.29
147328CM	PP049L	2.1 x 5.5 (P205L)	14.0 x 46.4 x 4.6 (black)	1/A	.69	.62	.56	.50
138587CM	PJ021R	2.1 x 5.5 rt. angle	12.0 x 22.5 x 3.9 (black)	1/B	.79	.63	.55	.49
190537CM	PP109S	2.5 x 5.5 (P206S)	9.0 x 43.5 x 4.8 (black)	1/A	.39	.32	.29	.19
28767CM	PP109	2.5 x 5.5 (P206)	10.1 x 45.4 x 4.3 (black)	1/A	.59	.49	.39	.33
191492CM	PP109W	2.5 x 5.5	10.1 x 45.4 x 4.5 (white)	1/A	.39	.35	.32	.26
147336CM	PP109L	2.5 x 5.5 (P206L)	13.6 x 47.5 x 4.8 (black)	1/A	.75	.68	.61	.55
168241CM	PP109N	2.5 x 5.5	13.7 x 36.5 x 3.9 (black)	1/C	.59	.49	.43	.35

### Male Plugs

101135CM	PJ1025	2.5 (P201)	11.1 x 49.0 x 4.3 (black)	2/A	\$ .59	\$ .53	\$ .39	\$ .29
147459CM	PJ1025L	2.5 (P201L)	10.5 x 48.0 x 5.0 (black)	2/A	.39	.27	.26	.22
101151CM	PJ1035	3.5 (P202)	13.8 x 51.8 x 4.2 (black)	2/A	.49	.38	.35	.29
147344CM	PJ1035L	3.5 (P202L)	14.1 x 51.0 x 5.2 (black)	2/A	.49	.38	.35	.29

## Automobile Power Plug & Cord Assembly

- Screw assembly with strain relief
- Accepts .25" x 1.25" fuse
- 124759CM: pigtail end
- 364138CM: 2.1mm x 5.5mm F connector

Part No.	Description	1	10	100
115001CM	W/ 5A/250VAC fuse	\$1.95	\$1.65	\$1.19
124759CM	W/ 3A/250VAC fuse & 3' cord	1.89	1.72	1.69
364138CM	W/ 5A/250VAC fuse & 70" cord	3.49	3.14	2.78



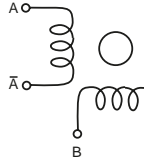
## Bipolar and Unipolar Stepper Motors

SALE

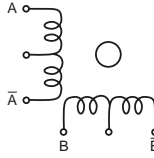
Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 2 to 200 VDC models below.

- Ball bearings
- Dielectric strength: 500V, 50Hz/minute
- 18" lead wires
- Ambient temp.: -10°C to +55°C
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998CM, pg 322, for shaft coupler

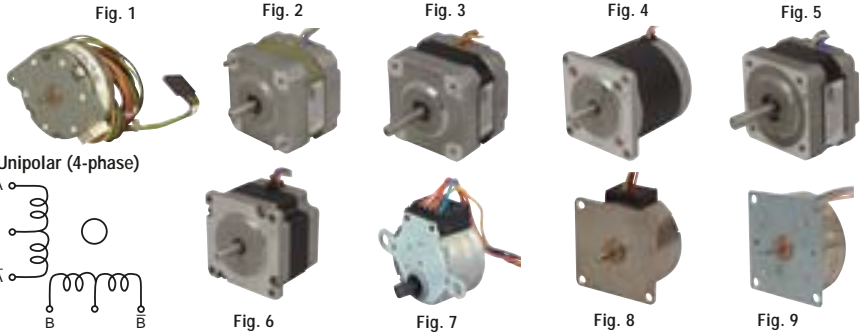
Bipolar (2-phase)



Unipolar (4-phase)



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Part No.	Cross Ref. No.	Fig.	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																		1	10	50
237526CM	42BYGH001	3	Bipolar	2	1.8	2.1	950	2.3	200	1700	1.22	0.10	0.20	0.95	1.67	1.34	0.50	\$19.79	\$16.82	\$12.62
237497CM	39BYG101-01	2	Bipolar	2.7	1.8	6.8	400	6.5	150	650	1.22	0.10	0.20	0.75	1.54	0.79	0.26	15.95	14.35	12.95
237420CM	35BYG002	3	Bipolar	3.2	1.8	4.8	800	3	15	50	1.02	0.10	0.20	0.83	1.38	1.02	0.30	10.85	9.85	8.95
237489CM	39BYG001	2	Bipolar	5	1.8	5	1000	—	150	1800	1.22	0.10	0.20	0.91	1.54	1.34	0.44	15.95	14.35	12.95
237577CM	57BYG061	4	Bipolar	6	1.8	12	500	24	—	3569	1.86	0.20	0.25	0.83	2.29	1.61	1.00	29.95	26.95	24.25
237518CM	42BYG017	2	Bipolar	6.3	1.8	15	420	16	150	1400	1.22	0.10	0.20	0.51	1.67	1.34	0.50	16.49	14.02	10.51
237454CM	39BYG201	2	Bipolar	9.6	1.8	20	480	—	200	1000	1.22	0.10	0.20	0.20	1.54	0.98	0.44	13.95	11.86	10.48
395567CM	42BYG022-40	3	Bipolar	9.6	1.8	100	240	46	—	1100	1.70	0.90	0.20	0.26	1.67	1.29	0.43	16.95	16.10	15.30
237411CM	35BYG005	2	Bipolar	12	1.8	20	500	—	1.5	10	1.02	0.10	0.20	0.83	1.38	1.10	0.37	19.15	16.28	12.21
155459CM	42BYG023	2	Bipolar	12	1.8	30	400	36	220	2100	1.73	0.10	0.20	0.60	1.70	1.30	0.50	17.95	16.29	14.59
237471CM	39BYG401A	2	Bipolar	12	1.8	30	400	32	200	2100	1.22	0.10	0.20	0.95	1.54	1.34	0.44	19.49	17.55	15.79
237817CM	25BY2414	7	Bipolar	12	15	27	440	15.5	48	140	1.26	0.11	0.08	0.37	0.98	0.59	0.08	5.15	4.69	4.25
237462CM	39BYG401	2	Bipolar	14	1.8	31	400	32	200	2300	1.22	0.10	0.20	0.95	1.54	1.34	0.44	15.95	14.50	12.42
237446CM	35BYG008	2	Bipolar	24	1.8	1.3	1600	1	1	900	1.02	0.10	0.20	0.83	1.38	1.14	0.33	11.45	10.39	9.43
237569CM	57BYG009	4	Unipolar	2.4	1.8	1	2400	1.5	—	5914	1.86	0.20	0.25	0.83	2.29	2.20	1.40	32.29	27.45	20.58
237614CM	57BYGH801	6	Unipolar	3.3	1.8	2.2	1500	2.2	—	5608	1.86	0.20	0.25	0.83	2.24	2.01	1.32	35.19	31.69	28.49
237534CM	42BYGH102	5	Unipolar	3.6	1.8	3	1200	3.2	220	3000	1.22	0.10	0.20	0.95	1.67	1.57	0.50	17.95	15.29	11.45
237551CM	57BYG008	4	Unipolar	4	1.8	3.1	1300	4.4	—	4996	1.86	0.20	0.25	0.83	2.29	2.01	1.30	29.95	26.95	24.25
237593CM	85BYGH450	6	Unipolar	4.4	1.8	2.2	2000	—	—	21414	2.76	0.26	0.51	1.38	3.35	2.95	4.90	161.95	145.75	131.19
237622CM	57BYGH802	6	Unipolar	4.8	1.8	3.2	1500	2.9	—	8157	1.86	0.20	0.25	0.83	2.24	2.20	1.54	37.69	33.95	30.55
237606CM	57BYGH001	6	Unipolar	5	1.8	5	1000	—	—	3976	1.86	0.20	0.25	0.83	2.24	1.61	1.10	32.49	29.25	26.35
237825CM	25BY4801	7	Unipolar	5	7.5	10	500	—	45	110	1.38	0.14	0.08	0.35	0.98	0.56	0.07	5.95	4.95	4.43
237673CM	35BY48B06	1	Unipolar	5	7.5	10	500	65	65	250	1.65	0.13	0.08	0.45	1.38	0.59	0.15	6.49	5.85	5.25
237737CM	42BY48H08	8	Unipolar	5	7.5	9.1	550	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.28	7.15	6.45	5.79
237770CM	20BY20H01	7	Unipolar	5	18	10	500	—	18	75	0.98	0.09	0.06	0.34	0.79	0.71	0.05	3.99	3.65	3.28
223870CM	57BYG070	4	Unipolar	5.4	1.8	3.6	1500	6	977	8974	2.65	0.20	0.25	0.80	2.20	2.20	2.00	49.95	44.96	39.80
237631CM	57BYGH803	6	Unipolar	6.3	1.8	4.2	1500	—	—	14276	1.86	0.20	0.25	0.83	2.24	2.99	2.43	64.59	58.15	52.35
172558CM	42BYG014	2	Unipolar	8.5	1.8	19	450	13	150	1300	1.22	0.50	0.20	0.87	1.67	1.34	0.50	10.49	9.45	8.55
237711CM	42BY48H06	8	Unipolar	9	7.5	20	450	18.5	130	800	1.95	0.14	0.12	0.39	1.65	0.87	0.30	5.95	5.45	4.94
237788CM	25BY2402	7	Unipolar	9	15	50	180	14	48	100	1.26	0.13	0.08	0.35	0.98	0.59	0.08	3.89	3.55	3.21
237649CM	25BY2403	7	Unipolar	9	15	20	450	4.5	48	130	1.38	0.14	0.08	0.33	0.98	0.56	0.07	3.35	3.05	2.76
172646CM	42BYG205	4	Unipolar	9.6	1.8	75	480	15	220	2300	1.73	0.10	0.20	0.90	1.70	1.40	0.50	17.95	16.19	14.55
224021CM	42BYG016	2	Unipolar	12	1.8	75	160	40	150	900	1.73	0.10	0.20	0.70	1.70	1.30	0.50	16.95	15.25	13.75
155432CM	42BYG228	2	Unipolar	12	1.8	30	400	23	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	0.50	17.95	16.29	14.59
237542CM	57BYG007	4	Unipolar	12	1.8	32	380	30	—	2957	1.86	0.20	0.25	0.83	2.29	1.61	1.00	25.95	22.06	17.08
238537CM	42BYGH404	5	Unipolar	12	1.8	30	400	25	250	3200	1.22	0.10	0.20	0.95	1.67	1.89	0.60	19.95	17.95	16.15
162026CM	57BYG084	4	Unipolar	12	1.8	20	600	22	725	6000	2.65	0.20	0.25	1.00	2.20	2.00	1.30	26.95	24.29	21.85
237972CM	28BYJ01A1	7	Unipolar	12	5.625	300	40	—	300	552	1.38	0.17	0.20	0.33	1.10	0.75	0.09	4.05	3.65	3.32
237981CM	28BYJ01C	7	Unipolar	12	5.625	300	40	—	350	552	1.38	0.14	0.12	0.20	1.10	0.78	0.10	3.85	3.49	3.17
237753CM	28BYJ012A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.08	3.29	2.99	2.79
237745CM	28BYJ01A	7	Unipolar	12	5.625	200	60	—	350	736	1.38	0.16	0.12	0.24	1.10	0.75	0.10	3.99	3.59	3.23
237833CM	25BY4803	7	Unipolar	12	7.5	50	240	16	45	110	1.34	0.09	0.08	0.27	0.98	0.59	0.07	4.29	3.99	3.93
237892CM	42BY48B03	8	Unipolar	12	7.5	57	210	18	105	300	2.28	0.08	0.12	0.30	1.65	0.58	0.21	6.75	6.25	6.19
238158CM	35BY48BH10	1	Unipolar	12	7.5	42	286	25	90	400	1.65	0.13	0.08	0.26	1.38	0.85	0.19	5.15	4.65	4.23
237930CM	42BY48B14	8	Unipolar	12	7.5	50	240	—	145	450	1.95	0.14	0.12	0.39	1.65	0.59	0.22	6.95	6.25	5.59
238131CM	35BY48BH05	1	Unipolar	12	7.5	15	800	10	90	460	1.65	0.13	0.08	0.26	1.38	0.85	0.19	5.15	4.69	4.25
237884CM	42BY48B02	8	Unipolar	12	7.5	40	300	28	130	500	N/A	N/A	0.12	0.30	1.65	0.57	0.21	7.65	6.95	6.30
238043CM	30BYJ05-PH	7	Unipolar	12	7.5	300	40	—	350	552	1.42	0.17	0.20	0.30	1.18	0.69	0.10	4.09	3.75	3.38
237761CM	30BYJ011	7	Unipolar	12	7.5	300	40	—	350	644	1.38	0.18	0.12	0.20	1.18	0.69	0.10	4.19	3.85	3.46

\* 395567CM/155459CM: Dual shaft    Blue Part No. = Limited Quantity Available





















JAMECO ReliaPro

## Bipolar and Unipolar Stepper Motors (Continued)

**SALE**

A Jameco EXCLUSIVE

Part No.	Cross Ref. No.	Fig. (see pg. 168)	Drive System	Voltage (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Wt. (lbs.)	Pricing		
																		1	10	50
238086CM	35BYJ03	7	Unipolar	12	7.5	400	40	—	450	828	1.65	0.16	0.20	0.33	1.42	0.67	0.12	\$4.15	\$3.75	\$3.39
238035CM	30BYJ03C 	7	Unipolar	12	7.5	160	75	—	350	920	1.54	0.17	0.12	0.44	1.42	0.69	0.11	4.15	3.79	3.43
238060CM	35BYJ02	7	Unipolar	12	7.5	200	60	—	400	1104	1.65	0.16	0.20	0.33	1.42	0.67	0.13	4.15	3.75	3.39
238078CM	35BYJ02A	7	Unipolar	12	7.5	200	60	—	400	1104	1.85	0.16	0.20	0.33	1.38	0.69	0.13	\$4.35	4.09	3.75
238051CM	35BYJ01 	7	Unipolar	12	7.5	130	92	—	350	1472	1.65	0.16	0.20	0.33	1.42	0.69	0.12	\$4.69	4.35	3.91
173180CM	30BYJ02AH 	7	Unipolar	12	7.5	200	60	49.5	400	736	1.42	0.14	0.19	0.36	1.18	0.68	0.10	11.49	9.77	7.32
237657CM	25BY2406	7	Unipolar	12	15	30	400	7.5	48	120	1.26	0.13	0.08	0.35	0.98	0.59	0.07	\$8.55	3.35	3.05
237956CM	42BY48H05	8	Unipolar	14	7.5	70	200	—	130	450	1.93	0.14	0.12	0.39	1.65	0.87	0.27	\$7.59	6.75	6.15
237438CM	35BYG007	5	Unipolar	15	1.8	28	400	—	12	70	1.02	0.10	0.20	0.83	1.38	1.10	0.37	13.95	11.86	10.48
237702CM	35BY48BH02 	1	Unipolar	16.2	7.5	60	270	50	90	450	1.65	0.13	0.08	0.33	1.38	0.59	0.20	\$5.99	5.15	4.69
237665CM	25BY2407 	7	Unipolar	16.2	15	85	190	19	48	100	1.26	0.16	0.08	0.49	0.98	0.56	0.10	\$4.29	3.49	3.19
237796CM	25BY2408 	7	Unipolar	16.2	15	60	270	16	48	120	1.26	0.17	0.08	0.55	0.98	0.56	0.10	\$5.99	4.65	4.20
237841CM	25BY4806 	7	Unipolar	20	7.5	50	400	16	45	155	1.26	0.13	0.08	0.49	0.98	0.56	0.10	\$5.99	4.29	3.99
237850CM	25BY4807 	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	\$5.99	4.29	3.99
237868CM	25BY4808 	7	Unipolar	20	7.5	50	400	16	45	155	1.38	0.14	0.08	0.22	0.98	0.87	0.10	\$5.99	4.29	3.99
237876CM	25BY4809	7	Unipolar	20	7.5	50	400	16	45	155	1.42	0.35	0.08	0.22	0.98	0.87	0.10	\$5.99	4.85	4.45
210391CM	STP42N196S	9	Unipolar	24	3.75	110	436	60	60	600	1.95	0.13	0.118	0.42	1.65	0.54	0.18	1.55	1.39	1.29
238115CM	35BY48B08 	1	Unipolar	24	7.5	75	320	38	65	270	1.65	0.13	0.08	0.35	1.38	0.59	0.15	6.19	5.68	5.17
238107CM	35BY48B07 	1	Unipolar	24	7.5	11	240	70	65	330	1.65	0.13	0.08	0.26	1.38	0.59	0.15	\$5.19	5.65	5.15
238140CM	35BY48BH07 	1	Unipolar	24	7.5	110	240	70	90	350	1.65	0.13	0.08	0.26	1.38	0.85	0.20	6.19	5.26	4.73
237690CM	35BY48BH01 	1	Unipolar	24	7.5	165	145	85	90	400	1.65	0.13	0.08	0.33	1.38	0.59	0.19	\$5.99	5.15	4.69
237921CM	42BY48B08	8	Unipolar	24	7.5	75	320	33	145	600	1.95	0.14	0.12	0.39	1.65	0.59	0.20	6.75	6.25	6.21
237905CM	42BY48B04 	8	Unipolar	24	7.5	110	220	53	145	630	1.95	0.14	0.12	0.45	1.65	0.59	0.20	6.39	5.89	5.85
237913CM	42BY48B04M	8	Unipolar	24	7.5	120	200	57	145	630	1.95	0.09	0.12	0.45	1.65	0.59	0.22	6.75	6.25	6.21
237948CM	42BY48H02	8	Unipolar	24	7.5	48	500	—	130	630	1.95	0.14	0.12	0.39	1.65	0.87	0.30	\$7.59	6.75	6.15
237729CM	42BY48H07 	8	Unipolar	24	7.5	85	280	78	130	780	1.95	0.14	0.12	0.39	1.65	0.87	0.27	7.89	6.71	6.20
237809CM	25BY2409 	7	Unipolar	24	15	118	200	22	48	100	1.37	0.13	0.08	0.37	0.98	0.59	0.10	\$5.49	4.45	4.01
238123CM	35BY48BH03 	1	Unipolar	28.8	7.5	115	278	85	90	450	1.65	0.13	0.08	0.26	1.38	0.85	0.19	\$6.19	5.15	4.69
237585CM	110BYG450C 	4	Unipolar	180-200	0.9/1.8	0.18	6000	2	3060	45,900	5.0	0.33	0.63	2.13	4.33	5.10	8.40	123.85	112.59	102.35

\* 173180CM: Gear ratio 85.25:1

### Other Manufacturers — Great Deals

117954CM



163395CM



105881CM



171601CM



Part No.	Cross Ref. No.	Drive System	Volt. (VDC)	Step Angle	Phase Resis. (Ohms)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space Diagonal (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Pricing		
																1	10	50
117954CM	LB82773-M1	Bipolar	5	7.5	6	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	\$4.29	\$3.89	\$3.09
163395CM	5017-935 <sup>1</sup>	Bipolar	8.4	0.9	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	4.95	4.21	3.16
105881CM	SM4203 <sup>2</sup>	Bipolar	12	3.6	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	6.49	5.85	5.29
171601CM	PF35T48L4 <sup>3</sup>	Unipolar	7	7.5	20	350	9	40	680	1.68	0.14	0.078	0.47	1.38	0.58	4.99	4.49	4.03

<sup>1</sup> 163395CM: Dual shaft <sup>2</sup> 105881CM: P/N 25216CM (IC, MC3479P, pg 29) bi-phase stepper motor driver can be used to operate; Use P/N 161998CM for shaft coupler, see pg 322

<sup>3</sup> 171601CM: Dual shaft w/ 10 tooth gear

## Servo Motors

### High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. (3500 g-cm) @ 4.8V
- Can be operated by P/N 151001CM, pg 166



Part No.	Description	Size	1	10
157067CM	Robotic servo	0.8"W x 1.4"D x 1.6"H	\$19.95	\$17.95

### Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

- Supply voltage: 4.8-6 volts
- Speed: 1.9 seconds to 60°
- Torque: 161 oz.-in. (11,500 g-cm) @ 4.8V
- Can be operated by P/N 151001CM, pg 166



Part No.	Description	Power Supply	1	10
166351CM	Giant robotic servo	4.8-6 volts	\$49.95	\$44.95

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### Serial Servo Controller Module

- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable, allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553CM, pg 111) or modular adapter from DB9 to RJ11 (P/N 114737CM, pg 110)
- Size (PCB): 1.9"L x 1.4"W • One-year warranty



Part No.	Description	1	10
151001CM	Mini SSC II	\$43.95	\$41.79

### 32-Bit Stepper Motor Controller

#### One Axis

- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19,200bps
- Full, half or wave step modes
- Multiple boards may share same serial line (RS485 only)
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V
- 4-bit digital input for home limits
- Addressable up to 255 boards
- Size: 4.4"L x 2.3"H
- Weight: 0.7 lbs.

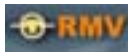


DPONTECH

Includes: Manual and sample code software

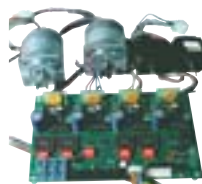
Part No.	Description	1	10
153621CM	32-bit controller	\$158.95	\$150.99

See our extensive motor selection on pages 164-165 & 167-170.



### Multi-Stepper Motor Control Board

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- High-speed serial communication interface 9.6kbps-230.4kbps
- 11 analog channels, A/D converter, 12-bit resolution
- 24-bit position register; can be read while motor is moving
- Linear acceleration/deceleration capability up to 8500 step/sec. • Size: 7.7"L x 5.0"W x 1.0"H
- Full step (monophasic and biphasic), half step and external driver modes
- Current-mode coil driver up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control • Weight: 0.7 lbs.
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles



Shown w/ motors - not included

Part No.	Description	1	10
168727CM	Stepper motor control brd ....	\$399.95	\$379.95

### Electric Motors & Control Techniques

**TAB Publishing** Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages, 1994)



- Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	Price
137162CM	Electric Motors & Control	\$24.95

### Sport232-ST One Axis Stepper Motor Controller and DAC Board

- Shaft encoder capabilities for close loop applications
- Home, limit CW/CCW, abort, pulse and direction output signals
- 4-channels with signal conditioning 0 to 2.5V, 0 to 10V
- Linear acceleration/deceleration, profile movements through 128 bytes internal FIFO
- Full, half steps (monophasic, bi-phasic)
- 8 Digital I/O and 8 analog inputs with 12-bit resolution
- Free 32-bit DLL for Windows 9x/NT/2000/XP, Linux and Labview



Part No.	Description	1	10
355047CM	Sport232-ST	\$147.25	\$137.75



### RMV856-ET Stepped Motor Controller

- CMOS, +5V device combines high performance with low cost
- Capable of generating step rates from 16 steps/sec to 8500 steps/sec using pulse and direction signals
- Internal step register counts up to 16 million steps per motion
- 8 Digital I/Os can be addressed individually by one command
- External programmable events: trigger waits, loops, program branches and stepping motions
- Supports programmable start rate, accel/decel, slew rate and absolute or relative control position
- Programmable stall detection feature controls positioning error • Internal or external direction control and separate limit switch for interfacing analog to digital or digital to analog converter



SALE

Part No.	Package	1	10	50
355266CM	PLCC-44	\$40.25	\$36.55	\$33.22

## KAE

### Industrial Motion Controllers for Brush, Brushless and Stepper Motors

All JR Kerr Automation Engineering controllers include integrated power amplifiers. Up to 32 controllers can be daisy-chained from a single full-duplex RS485 port. For RS-232 to RS-485 adapter see P/N 184971CM (below).



184989CM



323942CM



185009CM



323951CM



184971CM



184997CM

#### 184989CM/323942CM: PIC-SERVO motor control board

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps
- P/N 323942CM RS485 serial interface allows up to 32 PIC-SERVO controllers to be controlled from a single serial port

#### 185009CM/323951CM: PIC-SERVO 3PH motor control board for brush or brushless motors

- For 3-phase brushless motors with hall effect sensors or conventional DC brush-type motors
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Same features as 184989CM above but with support for linear & circular interpolation using the PIC-SERVO CMC chipset
- P/N 323951CM Amplifier capable of driving 6A continuously @ up to 48VDC

#### 184971CM: Z232-485 serial port adapter

- Lets you operate the controllers above from any standard RS-232 port

#### 184997CM: PIC-STEP motor control board

- Integrated indexer and driver for 2 or 4 phase stepper motors
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Trapezoidal position profiling, velocity mode, up to 50,000 steps per second
- Limit switch inputs, general purpose outputs, step/dir outputs for use with external drivers

Part No.	Description	Size (L" x W" x H")	1	10
184989CM	PIC-SERVO	3.1 x 2.1 x 0.9	\$184.69	\$166.25
323942CM	KAE-TOVIO	3.1 x 2.1 x 0.9	\$159.95	\$143.95
185009CM	KAE-TOV5-BD3-PHV1	3.1 x 3.1 x 1.0	\$271.79	\$244.69
323951CM	KAE-TOVIO	3.1 x 3.1 x 0.9	\$227.85	\$205.95
184971CM	Z232-485	3.1 x 2.1 x 0.5	\$59.95	\$53.95
184997CM	PIC-STEP	3.1 x 2.1 x 0.9	\$159.95	\$143.95

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## 1.5-112VDC Motors

Jameco has a broad selection of DC Motors available for immediate delivery! In fact, we're the only place in the country where you can buy so many types off-the-shelf. And because of our broad selection, major custom-design motor manufacturers send their customers to us! Be sure to check out all the products below.

**Typical applications:**

- RC cars and airplanes
- Arcade games
- Vending machines
- Office automation products
- Motorized toys
- Vacuum cleaners
- Hair removers
- Blow dryers
- Tire pumps
- Paper shredders
- Cordless power tools
- Christmas tree



**NICHIBO**

**Quantity SAVE**

**SALE**

Part No.	Product No.	Fig.	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (")	Shaft Length (")	Body Size (in) Dia. x Depth	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
231917CM	FE-260-2670	5	1.5	1.5-3	0.66	3700	10.5	42.9	Solder	0.078	0.314	0.937 x 1.063	\$1.19	\$1.01	\$0.76
231861CM	UE-260-2850	6	1.5	1.5-3	1.15	4260	13.4	34.9	Solder	0.078	0.314	0.944 x 1.063	.85	.75	.68
231853CM	UE-260-2838	6	1.5	1.5-2.4	1.57	5600	15.5	39.0	Solder	0.078	0.314	0.944 x 1.063	<del>\$0.95</del>	.85	.79
231909CM	FE-260-18130	5	3	1.5-4.5	0.36	4780	10.3	49.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	<b>.76</b>
231888CM	UE-260-20120	6	3	1.5-4.5	0.45	4780	12.9	49.8	Solder	0.078	0.314	0.944 x 1.063	<del>\$0.95</del>	.85	.79
231790CM	PC-130F-18120	7	3	3-4.5	0.51	6260	8.1	35.6	Solder	0.078	0.377	0.803 x 0.984	<del>\$1.65</del>	1.49	1.35
231870CM	UE-260-2290	6	3	1.5-4.5	0.62	6400	12.9	47.1	Solder	0.078	0.314	0.944 x 1.063	<del>\$0.95</del>	.85	.79
231925CM	FE-260-2295	5	3	1.5-4.5	0.63	6850	14	53.9	Solder	0.078	0.314	0.937 x 1.063	1.19	1.07	.95
232071CM	FC-280-2485	1	4.5	4.5-7.2	0.88	7820	26	52.7	Solder	0.078	0.472	0.944 x 1.200	2.09	1.88	1.33
232080CM	FC-280-2865	1	4.5	4.5-6	1.38	9970	30.4	50.1	Solder	0.078	0.472	0.944 x 1.200	<del>\$1.59</del>	1.35	1.25
231765CM	PC-130SF-15160	7	4.8	3-9	0.42	4960	16.6	42.6	Solder	0.078	0.377	0.803 x 0.984	<del>\$2.49</del>	1.59	1.45
231984CM	UC-260-14275	6	6	6-12	0.21	4150	13.1	45.8	Solder	0.078	0.314	0.944 x 1.063	<del>\$1.15</del>	1.05	.95
231829CM	PC-280-16210	8	6	3-12	0.28	4260	18	47.6	Solder	0.078	0.433	0.944 x 1.200	1.89	1.75	1.59
231781CM	PC-130F-12240	7	6	3-9	0.25	6800	7	33.4	Solder	0.078	0.377	0.803 x 0.984	2.49	2.24	2.02
231992CM	UC-260-18160	6	6	3-9	0.57	7460	22.1	49.9	Solder	0.078	0.314	0.944 x 1.063	1.79	1.61	1.45
231811CM	PC-280-20125	8	6	3-9	0.57	7560	21.1	48.6	Solder	0.078	0.433	0.944 x 1.200	<del>\$1.89</del>	1.69	1.55
232063CM	FC-280-20120	1	6	4.5-9	0.60	7800	24.1	53.5	Solder	0.078	0.472	0.944 x 1.200	<del>\$1.35</del>	1.25	1.15
232143CM	FF-050S-11170	3	7	1.5-9	0.17	8500	7	51.3	Solder	0.059	0.433	0.610 x 1.059	2.99	2.54	1.91
232151CM	FF-050S-09250	3	8	5-11.5	0.11	6300	7	51.4	Solder	0.059	0.433	0.610 x 1.059	<del>\$1.95</del>	1.75	1.59
231802CM	PC-130F-10370	7	9	6-12	0.15	6410	8.5	43.9	Solder	0.078	0.377	0.803 x 0.984	2.49	1.89	1.69
231933CM	UC-280S-10450	9	12	12-24	0.11	2850	21.3	46.5	Solder	0.078	0.433	0.944 x 1.200	<del>\$1.95</del>	1.75	1.59
232012CM	MD5-12160	10	12	12-24	0.30	4000	34.3	39.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231968CM	UC-260-09530	6	12	12-24	0.12	4030	12.5	36.7	Solder	0.078	0.314	0.944 x 1.063	<del>\$1.15</del>	1.05	.95
231845CM	PC-280-10420	8	12	6-24	0.13	4270	14.5	43.6	Solder	0.078	0.433	0.944 x 1.200	<del>\$1.89</del>	1.69	1.55
231731CM	PC-130SF-09480	7	12	6-24	0.11	4800	12.3	49.6	Solder	0.078	0.377	0.803 x 0.984	2.09	1.89	1.69
231749CM	PC-130SF-09400	7	12	6-24	0.15	5130	14.3	42.5	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	1.59
231896CM	FE-260-08450	5	12	6-12	0.11	5560	10.3	46.6	Solder	0.078	0.314	0.937 x 1.063	1.19	1.01	.85
231773CM	PC-130F-09490	7	12	6-18	0.51	6260	8.1	39.1	Solder	0.078	0.377	0.803 x 0.984	<del>\$1.65</del>	1.49	1.35
231757CM	PC-130SF-10315	7	12	6-18	0.25	6350	20	44.6	Solder	0.078	0.377	0.803 x 0.984	2.49	2.12	<b>1.59</b>
232055CM	FC-280-12280	1	12	6-12	0.26	6840	21.4	48.6	Solder	0.078	0.472	0.944 x 1.200	<del>\$1.35</del>	1.25	1.15
231976CM	UC-260-12335	6	12	6-12	0.24	7050	19.5	50.0	Solder	0.078	0.314	0.944 x 1.063	<del>\$1.79</del>	1.15	1.05
231837CM	PC-280-15265	8	12	6-12	0.30	7230	25	52.5	Solder	0.078	0.433	0.944 x 1.200	<del>\$1.89</del>	1.69	1.55
232004CM	PC-280S-19160	9	12	6-12	0.57	9000	46.6	63.4	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232021CM	MD5-1885	10	12	6-18	0.74	9820	53.5	60.7	Solder	0.091	0.622	1.082 x 1.279	2.25	1.99	1.79
231950CM	UC-280S-20145	9	12	6-12	0.75	10000	55	64.0	Solder	0.078	0.433	0.944 x 1.200	2.55	2.29	2.09
232039CM	MD5-2070	10	12	6-12	1.20	12150	62.2	54.1	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	1.43
232127CM	MD5-2554AS-AA	2	12	6-12	1.70	17000	72.9	62.4	Quick Connect	0.091	0.512	1.083 x 1.279	<del>\$2.55</del>	2.15	1.95
232119CM	MD5-2450AS-AA	2	12	6-12	2.00	17200	77.5	55.9	Quick Connect	0.091	0.512	1.083 x 1.279	<del>\$2.55</del>	2.19	1.99
232047CM	MD5-2445	10	12	6-12	2.05	19850	79.7	66.0	Solder	0.091	0.622	1.082 x 1.279	2.25	1.91	<b>1.43</b>
231941CM	UC-280S-12285	9	24	12-24	0.39	10300	54.4	62.4	Solder	0.078	0.433	0.944 x 1.200	<del>\$2.99</del>	2.25	2.02
232098CM	MD5-15120AS-AA	2	24	12-24	0.70	15100	66.7	61.5	Quick Connect	0.091	0.512	1.083 x 1.279	<del>\$2.55</del>	2.19	1.99
232101CM	MD5-1980AS-AA	2	24	12-24	1.43	22600	88.5	60.9	Solder	0.091	0.512	1.083 x 1.279	4.29	3.86	3.49

Blue P/N = Limited Quantity Available

### JAMECO ReliaPro (Mabuchi-Type)

238465CM	RF-310TA-11400 (CCW)	11	2.5	1-6	0.06	2190	3.3	—	Solder	0.078	0.247	0.962 x 0.712	\$2.49	\$2.12	<b>\$1.59</b>
238457CM	RF-300PA-11400 (CW)	12	3	1-3	0.07	2400	4.3	56.4	Wires	0.078	0.278	0.960 x 0.504	4.35	3.89	3.49
238511CM	RF-500TB-12560	13	6	1.5-12	0.08	2180	11.6	50.6	Solder	0.078	0.385	1.259 x 0.767	4.49	3.82	<b>2.86</b>
238449CM	EG-530AD-9B (CCW)	14	9	6-11	0.09	2400	8	—	Solder	0.078	0.307	1.377 x 0.984	4.69	3.99	2.99
238490CM	EG-530YD-9B (CCW)	14	9	6.3-11.7	0.13/14	2000/4000	10	—	Solder	0.078	0.307	1.377 x 0.984	<del>\$6.85</del>	3.25	2.95
238502CM	EG-530KD-2B (CCW)	14	12	8.4-15.6	0.08	1600	10	—	Solder	0.078	0.307	1.377 x 0.984	<del>\$5.39</del>	2.65	2.39
238473CM	RF-370CA-15370	15	12	3-12	0.17	4840	187	—	Solder	0.078	0.346	0.960 x 1.213	5.55	4.72	<b>3.54</b>
238414CM	EG-530AD-2B (CCW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	4.49	3.82	<b>2.86</b>
238406CM	EG-530AD-2F (CW)	14	12	8.4-15	0.07	2400	60	—	Solder	0.078	0.307	1.377 x 0.953	5.39	4.58	3.44
238481CM	EG-530YD-2B (CCW)	14	12	8.4-15	0.13/14	2000/4000	10	—	Solder	0.078	0.322	1.303 x 0.997	<del>\$5.29</del>	3.15	2.89

### JAMECO ReliaPro (Hi-Torque)

237391CM	29SYT003	4	13.5	13.5	13	18000	509	—	Quick Connect	0.125	1.003	1.141 x 2.283	\$5.95	\$5.35	\$4.85
237382CM	29SYT002	4	24	24	0.93	2680	178	—	Wire	0.100	0.334	0.787 x 1.89	7.19	6.47	5.82
237403CM	40SYT002	16	26	26	1.5	3000	815	—	Quick Connect	0.196	1.021	1.57 x 3.85	25.95	23.35	20.99
237374CM	29SYT001	4	112	112	0.93	2680	178	—	Wire	0.100	0.334	1.15 x 1.89	<del>\$4.65</del>	4.25	3.85

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend

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167







Quantity SAVE

## 1.2VDC-24VDC Motors

star motor



Part No.	Product No.	Manufacturer	Nominal Voltage (VDC)	Voltage Range (VDC)	@ Maximum Efficiency			Efficiency	Terminal Type	Shaft Dia. (in.)	Shaft Length (in.)	Size (in.) (Dia. x Depth)	Pricing		
					Current (Amps)	Speed (RPM)	Torque (g-cm)						1	10	100
311976CM	20519-34442	Johnson Electric	1.2	—	1.510	3754	25.98	55	0.08*/solder	0.08	0.33	1.00 x 1.20	\$1.49	\$1.27	\$ .95
295849CM	RF-310T-11400	Mabuchi Motor	2.5	1-6	0.060	2190	3.3	—	0.06*/solder	0.08	0.89	0.96 x 0.71	1.79	1.61	1.42
154915CM	ST-130-12240	Star Motor	3	1.5-3	0.170	3588	7.4	55	0.09*/solder	0.08	0.37	0.79 x 1.13	1.29	1.16	.86
154923CM	ST-130-22770	Star Motor	3	1.5-3	1.150	12500	10.3	40	0.09*/solder	0.08	0.37	0.79 x 1.13	.99	.89	.79
211246CM	RC-260RA-2670	Mabuchi Motor	4.5	3-4.5	1.430	15290	21.8	53	0.11*/solder	0.08	0.28	0.93 x 1.06	.79	.67	.50
177498CM	RC280RA-2485	Mabuchi Motor	7.2	3-14	1.180	14260	33.3	57	11*/solder	0.08	0.43	0.95 x 1.20	1.75	1.55	1.39
667411CM	RF270RH-12370	Mabuchi Motor	12	6-15	0.140	5130	19.2	—	.08*/quick conn.	0.08	0.59	0.96 x 1.21	2.95	2.65	1.99
174692CM	21226-384221	Johnson Electric	12	9-14	0.015	3000	—	—	0.11*/solder	0.08	0.69	0.97 x 1.19	2.49	2.15	1.59
206949CM	QJT360S14280	Nichibo	12	9-30	0.350	4930	44.5	52	0.11*/solder	0.09	0.45	1.09 x 1.30	1.69	1.52	1.36
153656CM	RS550PF	Mabuchi Motor	12	6-15	1.400	6500	44.1	—	0.15*/solder	0.13	0.66	1.45 x 2.25	3.29	2.99	2.69
267291CM	SUN-555A-LMRK	Telco	24	—	0.150	4100	84	—	Wire w/ conn.	0.13	0.40	1.45 x 2.25	2.99	2.54	1.91

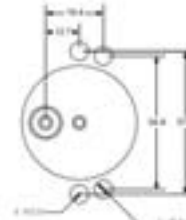
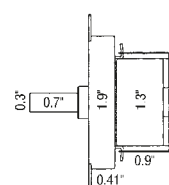
1 154915CM/154923CM: Use bushing P/N 162392CM, pg 322

2 Manufacturer may vary

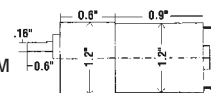


## 6VDC and 12VDC Reversible Gear Head Motors

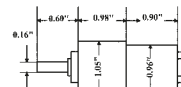
- Solder-type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC



GH30GM Series



HN27GD Series



### 32GM Series

### 32GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253403CM	32-009	6	64	2.7	2500	450:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	\$17.95	\$16.15	\$14.55
253382CM	32-007	6	57	3.2	1800	377:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	14.95	13.49	12.15
253374CM	32-006	6	51	4	1680	300:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253340CM	32-005	6	48	5	1600	240:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253323CM	32-004	6	44	6	1500	200:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253315CM	32-003	6	40	6.3	1350	190:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	14.95	13.49	12.15
253307CM	32-002	6	38	8	1200	150:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55
253227CM	32-001	6	35	24	450	50:1	1.9 x 0.41	1.3 x 0.90	0.3 x 0.7	17.95	16.15	14.55

### HN27GD Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
167038CM	GH12-0953Y	12	4.5 - 24	90	9	1200	188:1	1.0 x 0.9	1.1 x 1.0	0.16 x 0.60	\$16.49	\$14.85	\$13.39
167046CM	GH12-1828Y	12	4.5 - 24	195	31	1300	90:1	1.1 x 1.3	1.1 x 0.8	0.16 x 0.60	21.95	19.79	17.79

### GH30GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
170641CM	GH12-1828Y-10	12	6.0 - 24	105	8	3500	332:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	\$23.95	\$20.36	\$15.27
153437CM	GH12-1045Y	12	3.0 - 12	90	7	800	200:1	0.9 x 1.0	1.1 x 0.6	0.16 x 0.70	18.95	17.09	15.35
159417CM	GH12-1921Y	12	4.5 - 12	200	35	2000	132:1	1.2 x 1.2	1.2 x 0.9	0.16 x 0.70	21.95	19.79	17.79
162190CM	GH12-1324Y225	12	4.5 - 12	145	176	300	30:1	1.0 x 0.9	1.1 x 0.6	0.16 x 0.70	16.95	15.25	13.75

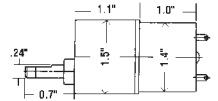
Blue Part No. = Limited Quantity Available

**For more Gears, SS-Shafts, Couplings, etc.**  
go to [www.Jameco.com/Prod/Gears](http://www.Jameco.com/Prod/Gears)

## 12VDC and 24VDC Reversible Gear Head Motors

### GH35GM Series

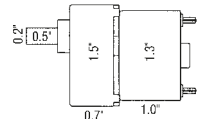
Part No.	Cross Ref. No.	Rated Voltage (VDC)	Operating Range (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Length (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
				Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
155011CM	GH12-1926	12	4.5 - 12	250	2	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	\$21.95	\$19.79	\$17.79
155820CM	GH12-1830Y-P	12	4.5 - 12	220	4.5	4500	1000:1	1.3 x 0.9	1.5 x 1.0	.23 x .90	21.95	19.79	17.79
155838CM	GH12-1641T-L	12	3.0 - 12	250	15	3000	270:1	1.3 x 0.9	1.5 x 0.8	.23 x .90	23.95	21.59	19.45
152910CM	GH12-1926Y	12	4.5 - 12	172	35	2370	100:1	1.3 x 1.0	1.5 x 0.7	.24 x .90	21.95	19.75	17.75
151440CM	GH12-1632TI	12	4.5 - 12	275	57	2200	100:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	21.95	18.55	16.69
155854CM	GH12-1641T-F	12	3.0 - 12	250	71	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	21.95	19.79	17.79
155862CM	GH12-1926Y-F	12	4.5 - 12	300	70	1000	60:1	1.3 x 0.9	1.4 x 0.9	.23 x .90	22.95	20.79	18.79
161373CM	GH12-1345T	12	4.5 - 12	185	116	650	30:1	1.3 x 0.9	1.5 x 0.7	.23 x .90	23.95	21.59	19.45
161381CM	GH12-1634T	12	4.5 - 12	293	145	850	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	22.49	20.29	18.25
164785CM	GH12-1640Y	12	4.5 - 24	120	220	180	10:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	23.95	21.59	19.45
176049CM	GH12-1640Y00	24	12 - 24	340	1.8	6000	3000:1	1.3 x 0.9	1.5 x 1.1	.23 x .90	21.95	18.66	15.52
176031CM	GH24-1640Y06	24	12 - 24	340	50	2000	90:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	22.49	20.25	18.39
176022CM	GH24-1640Y19	24	12 - 24	340	148	1000	30:1	1.3 x 0.9	1.4 x 0.7	.23 x .90	21.95	19.79	17.79



GH35GM Series



155011CM



38GM Series



253446CM

### 38GM Series

Part No.	Cross Ref. No.	Rated Voltage (VDC)	@ Maximum Efficiency			Gear Ratio	Gear Case Size Dia. x Height (in.)	Motor Size Dia. x Depth (in.)	Shaft Size Dia. x Length (in.)	Pricing		
			Current (mA)	Speed (RPM)	Torque (g-cm)					1	10	50
253534CM	38-010	12	97	24	7500	250:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	\$18.95	\$17.09	\$15.35
253526CM	38-009	12	93.5	36	5400	167:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253518CM	38-008	12	87.5	40	4800	150:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253500CM	38-007	12	82	60	3200	100:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253497CM	38-006	12	80	66	2100	90:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253489CM	38-005	12	76	110	1300	56:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253471CM	38-004	12	74	120	1100	50:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253454CM	38-002	12	65	200	700	30:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35
253446CM	38-001	12	61.8	600	350	10:1	1.5 x 0.7	1.3 x 1.0	0.2 x 0.5	18.95	17.09	15.35

## 1.3VDC and 3VDC Vibrating Motors

• Typical applications: cellular phones, pagers and toys

**SALE**

**Quantity SAVE**



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

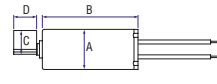


Fig. 3

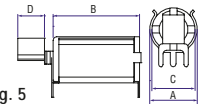


Fig. 5

Part No.	Cross Ref. No.	Fig.	Operating Voltage (VDC @ mA)	Operating Range (VDC)	Rated RPM @ VDC	Lead Length (in.)	Motor Size (A x B) Dia. x Depth	Shaft Size (C x D) Dia. x Length	Pricing		
									1	10	100
175062CM	OTL-7AL	1	1.3 @ 62	0.70 - 1.60	7000 @ 1.3	0.7	0.28 x 0.67	0.10 x 0.18	\$5.49	\$4.94	\$4.45
256356CM	72K642	3	1.3 @ 70	1.00 - 1.60	7500 @ 1.3	4.7	0.28 x 0.66	0.18 x 0.22	<del>\$4.65</del> 3.99	3.59	2.64
256372CM	72K631	3	1.3 @ 70	0.80 - 1.60	7500 @ 1.3	1.1	0.28 x 0.66	0.12 x 0.16	<del>\$3.65</del> 2.59	2.39	2.14
175396CM	OTL-4AL	2*	1.3 @ 65	0.70 - 1.60	8500 @ 1.3	0.8	0.16 x 0.55	0.15 x 0.23	6.49	5.85	5.19
256305CM	62K003	3	1.3 @ 80	0.85 - 1.60	8500 @ 1.3	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256321CM	62K211	5	1.3 @ 80	0.80 - 1.60	8500 @ 1.3	PC Term	0.27 x 0.48	0.11 x 0.11	3.29	2.80	(2.10)
256049CM	42K041	3	1.3 @ 85	0.85 - 1.60	11000 @ 1.3	1.0	0.16 x 0.43	0.07 x 0.17	<del>\$5.49</del> 4.19	3.79	3.17
256241CM	52K011	3	1.3 @ 85	0.80 - 1.60	11000 @ 1.3	1.0	0.20 x 0.39	0.10 x 0.12	<del>\$4.29</del> 3.05	2.76	2.51
256364CM	72K692	3	3.0 @ 60	2.40 - 3.00	6500 @ 3.0	4.7	0.28 x 0.66	0.18 x 0.22	4.65	4.19	3.75
256381CM	72K681	3	3.0 @ 60	2.40 - 3.60	7500 @ 3.0	1.1	0.28 x 0.66	0.12 x 0.16	4.65	4.19	3.75
256313CM	62K053	3	3.0 @ 75	1.60 - 3.60	8500 @ 3.0	1.0	0.23 x 0.39	0.10 x 0.10	3.29	2.99	2.69
256330CM	62K261	5	3.0 @ 75	2.40 - 3.00	8500 @ 3.0	PC Term	0.27 x 0.48	0.11 x 0.11	2.35	2.15	1.95
256090CM	42K091	3	3.0 @ 80	2.40 - 3.60	11000 @ 3.0	1.0	0.16 x 0.43	0.07 x 0.17	5.95	5.35	4.85

### Other Manufacturers

190078CM	6CD-1201WL-00	4*	1.3 @ 80	1.3, typical	7500 @ 1.3	1.1	0.24 x 0.47	0.10 x 0.22	\$6.55	\$5.57	(4.18)
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\*More details on page 170

**30-Day Money-Back Guarantee**

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

# Vibrating Motors, AC Gear Motor & Solenoids

Color Code Legend  
New Sale Lower\$ QtySave

**JAMECO ReliaPro**

## 1.3VDC 8,500 RPM Vibrating Motor

**A Jameco EXCLUSIVE**

- Typical applications: cellular phones, pagers, and toys
- Rated RPM: 8,500 @ 1.3VDC
- Direction of rotation: clockwise
- Operating voltage: 1.3V @ 65mA (typical)
- Lead length: 0.75"
- Size: (motor) 0.16"Dia. x 0.55"L (shaft) 0.15"Dia. x 0.23"L



Part No.	Description	1	10	100
175396CM	Vibrating motor	\$6.49	\$5.85	\$5.19

**Namiki**

## 1.3VDC 7,500 RPM Vibrating Motor

- Typical applications: cellular phones, pagers and toys
- Rated RPM: 7,500 @ 1.3VDC
- Clock-wise rotation
- 1.1" lead wires
- Operating voltage: 1.3VDC @ 80mA
- Size: (motor) 0.47"L x 0.24"Dia. (shaft) 0.22"L x 0.10"Dia.



**Quantity SAVE**

Part No.	Description	1	10	100
190078CM	Vibrating motor	\$6.55	\$5.57	\$4.18

## 120VAC Gear Motor

**6.0 RPM - 2.9 Watt**

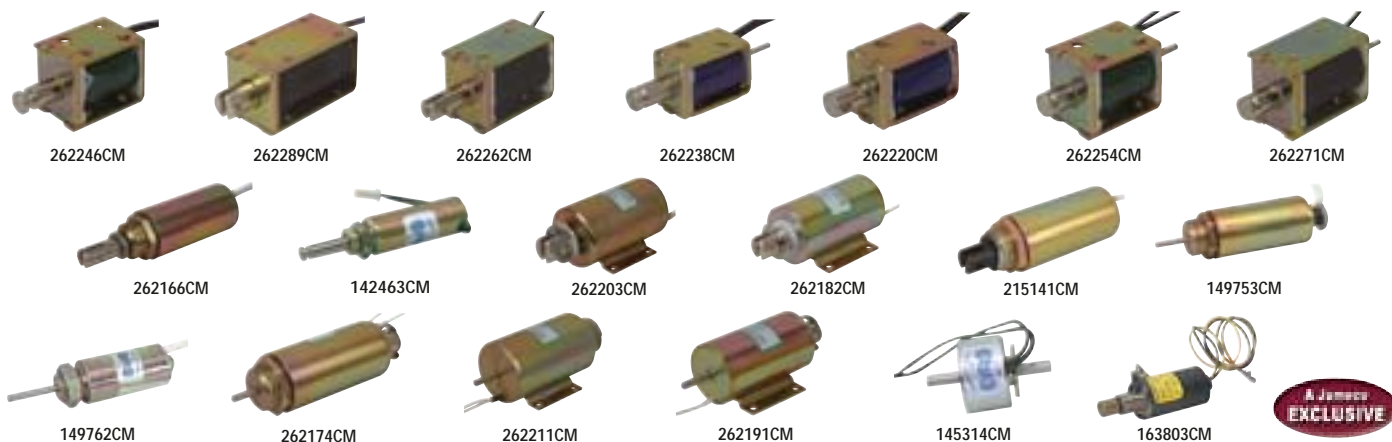
- Operating voltage: 120VAC @ 60Hz
- Torque: >3.6 kg-cm
- Connector: 12" wires
- Screw down tabs for mounting (2.3" diagonal mounting hole space)
- Shaft diameter: 0.27" • Shaft length: 0.65"
- Overall size: 2.0" Dia. x 1.0" thick
- Typical applications: air conditioner turnleaf motor, microwave turnplate motor



Part No.	Cross Ref. No.	1	10	100
213487CM	50TYZ	\$14.95	\$13.46	\$12.11

**JAMECO ReliaPro**

## 12VDC and 24VDC Continuous Push, Pull and Push/Pull Solenoids



Part No.	Cross Reference No.	Type	Voltage (VDC)	Coil Res. (±10%) (Ohms)	Power Consump. (W)	Holding Force (lbs. @ 20°C)	Stroke	Size L x Dia. (in.) †	Shaft Dia. (in.)	Wt. (lbs.)	Pricing		
											1	10	100
262246CM	SMO-0520L12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.200	0.04	\$5.69	\$5.15	\$4.69
262289CM	SMO-1253L12AA	Open frame-pull	12	26	6.0	0.90	0.24	2.0 x 1.2 x 1.1	0.470	0.50	11.89	10.69	9.65
262262CM	SMO-0837L12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.310	0.21	7.29	6.56	5.90
262238CM	SMO-0415S12AA	Open frame-push	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.040	0.01	6.55	5.89	5.35
262220CM	SMO-0415L12AA	Open frame-pull	12	180	0.8	0.01	0.12	0.6 x 0.4 x 0.3	0.160	0.01	4.29	3.89	3.49
262254CM	SMO-0520S12STD	Open frame-pull	12	90	1.6	0.16	0.24	0.8 x 0.6 x 0.5	0.06/0.20*	0.04	6.99	6.29	5.69
262271CM	SMO-0837S12STD	Open frame-pull	12	36	4.0	1.10	0.24	1.5 x 1.0 x 0.8	0.08/0.31*	0.21	8.39	7.59	6.85
262166CM	SMT-1325L12STD	Tubular-pull	12	36	4.0	0.11	0.47	1.0 x 0.5	0.200	0.05	9.95	8.95	8.15
142463CM	SMT-1130L12A	Tubular-pull	12	36	4.0	0.63	0.40	1.6 x 0.4	0.150	0.04	7.45	6.69	6.05
262203CM	SMT-3864L24STD	Tubular-pull	24	34	17.0	1.32	1.18	2.5 x 1.5	0.620	1.10	29.95	26.95	24.29
262182CM	SMT-3257L24STD	Tubular-pull	24	44	13.0	3.30	0.70	2.3 x 1.3	0.500	0.65	19.59	17.69	15.89
215141CM	SMT-2251L24AA	Tubular-pull	24	60	10.0	4.00	1.00	3.0 x 1.0	0.440	0.40	10.95	9.86	8.87
149753CM	SMT-1325S12A	Tubular-push	12	36	4.0	0.75	0.47	1.9 x 0.5	0.063	0.05	9.95	8.96	7.92
149762CM	SMT-1632S12A	Tubular-push	12	21	7.0	1.50	0.24	2.5 x 0.6	0.098	0.10	10.95	9.86	8.87
262174CM	SMT-2551S24STD	Tubular-push	24	58	10.0	1.32	0.70	2.0 x 1.0	0.120	0.40	15.95	14.39	12.99
262211CM	SMT-3864S24STD	Tubular-push	24	34	17.0	1.32	1.18	2.5 x 1.5	0.160	1.10	31.39	28.19	25.39
262191CM	SMT-3257S24STD	Tubular-push	24	44	13.0	6.80	0.70	2.3 x 1.3	0.160	0.65	19.95	17.95	16.19
145314CM	SMT1913S12A	Tubular-push/pull	12	89	2.0	1.12	0.16	1.2 x 0.7	0.110	0.05	9.95	8.96	8.06

### Other Manufacturers — Great Deals

163803CM	A420-067074-01	Tubular-push	12	43	3.4	0.75	0.17	2.0 x 0.6	0.156	0.10	\$9.95	\$8.46	\$6.34
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† Open frame type dimensions: L" x W" x H"; \* Dual shaft

## 12VDC Solenoid Valve

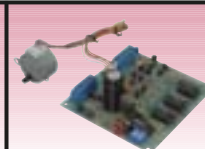
- Operating voltage: 12VDC
- Operational temperature: -29°C to 85°C
- Air leakage: 1c.c./min. max. 4psi
- Current: 350mA
- 0.250" quick disconnect terminals

Part No.	Description	Dimensions	1	10	100
169834CM	Solenoid valve	1.2"L x 0.92" Dia.	\$7.35	\$6.59	\$5.89



## Motor Kits

See page 327 for our selection.



RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.





## Miniature Basic Switches

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H



159572CM



159581CM/187792CM



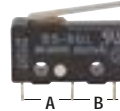
187805CM

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Resistance (Initial)	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	10	100
159572CM	VS10N051C	Highly Electric	Hinge roller (0.60"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	\$2.89	\$2.54	\$2.28
159581CM	VS10N021C2	Highly Electric	Hinge lever (1.05"L)	SPDT-NC	10A@125VAC, 10A@250VAC	15milliΩ (max.)	10M/100k	.183" quick connect	2.45	2.25	1.99
187792CM	V-10G2-1C24K	Omron	Hinge lever (1.08"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.45	2.25	1.99
187805CM	V-10G3-1C24K	Omron	Long hinge lever (2.01"L)	SPDT-NC	0.1A@125VAC, 10A@250VAC	30milliΩ (max.)	50M/300k	.183" quick connect	2.75	2.48	2.29



## Subminiature Basic Switches

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H



187709CM



187733CM



159599CM

Part No.	Product No.	Manufacturer	Actuator Type	Contact Form	Contact Rating	Contact Force	Service Life (Mech./Elec.)	Terminal Type	Pricing		
									1	25	50
187709CM	SS-5GL	Omron	Hinge lever (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	\$1.59	\$1.45	\$1.29
187733CM	SS-5GL2	Omron	Hinge roller (0.6"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	50g	30M/200k	Solder	1.25	1.15	1.09
159599CM	SS0505A	Highly Electric	Hinge roller (0.7"L)	SPDT-NC	5A @ 125VAC, 3A @ 250VAC	45g	30M/200k	Solder	1.19	.99	.89



## D2F Series Subminiature Snap-Action Switches

Super compact for PCB mounting.

- Dimensions: 0.50"L x 0.23"W x 0.26"H
- Contact form: SPST • Contact force: standard (80g)
- Contact rating: 3A @ 125VAC; 2A @ 30VDC
- Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom



Part No.	Product No.	Actuator Type	Contact Type	1	25	50
188867CM	D2F-L	Hinge lever	General purpose	\$.89	\$.83	\$.79



## D4 Series Miniature Snap-Action Switches

- Electrical life: 6,000 cycles min. per UL
- Actuating button: thermoplastic acetal/polyester
- Common terminals: silver-plated brass
- Auxiliary actuator: aluminum, stainless steel, or cold-rolled steel (nickel plated)
- UL94V-0 rated
- Temperature rating: -40°C to +85°C
- Mounting: recommend #4-40 round head
- Case: thermoplastic polyester
- Contract form: SPDT

**NEW**



482855CM



483284CM

Part No.	Product No.	Lever Type	Contact Rating	NO/NC Terminals	Moving Blade	Contacts	Terminal Type	1	10	100
482821CM	D41CR1RA	Standard ratio roller, 0.81"L	0.1A @ 125/250VAC	Brass	Brass	Gold cross point	Quick conn. 0.187" straight	\$4.95	\$3.65	\$3.15
482839CM	D41CR1RD	Standard ratio roller, 1.34"L	0.1A @ 125/250VAC	Brass	Brass	Gold cross point	Quick conn. 0.187" straight	4.95	3.65	3.15
482855CM	D41LR1RA	Standard ratio roller, 0.81"L	0.1A @ 125/250VAC	Brass	Brass	Gold cross point	Quick conn. 0.187" straight	5.45	4.01	3.46
482863CM	D41LR1RD	Standard ratio roller, 1.34"L	0.1A @ 125/250VAC	Brass	Brass	Gold cross point	Quick conn. 0.187" straight	5.45	4.01	3.46
482927CM	D42CR1RA	Standard ratio roller, 0.81"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	3.29	2.42	2.09
482935CM	D42CR1RD	Standard ratio roller, 1.34"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	3.39	2.51	2.17
482901CM	D42CR1LA	Standard ratio lever, 0.865"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	1.95	1.81	1.72
482919CM	D42CR1LD	Standard ratio lever, 2.757"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	2.75	2.02	1.74
482978CM	D42LR1XL	High ratio alum. lever, 2.932"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	5.45	3.99	3.27
482986CM	D42LR1YD	Standard ratio alum. lever, 1.40"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	4.15	3.10	2.68
482994CM	D42LR1YL	Standard ratio alum. lever, 1.40"L	3A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	4.29	3.18	2.74
483049CM	D43BQ3RA	Standard ratio roller, 0.81"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" dog leg	2.75	2.57	1.90
483153CM	D43LR1LD	Standard ratio lever, 1.40"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	4.25	3.12	2.69
483102CM	D43CR1RA	Standard ratio roller, 0.81"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	3.15	2.51	2.09
483111CM	D43CR1RD	Standard ratio roller, 1.34"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	3.39	2.51	2.17
483129CM	D43CR1TD	High ratio roller, 1.516"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	2.39	2.25	2.14
483137CM	D43CV3RA	Standard ratio roller, 0.81"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.250" dog leg	2.09	1.98	1.46
483188CM	D43LR1RA	Standard ratio roller, 0.81"L	5A @ 125/250VAC	Brass	Brass	Silver alloy	Quick conn. 0.187" straight	2.55	2.42	2.30
483276CM	D44CR1RA	Standard ratio roller, 0.81"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.35	1.92	1.70
483284CM	D44CR1RD	Standard ratio roller, 1.34"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.15	2.30	1.99
483292CM	D44CR1SC	Standard ratio slim roller	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	1.35	1.24	1.12
483305CM	D44CR1SD	Standard ratio slim roller	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.49	2.16	1.59
483401CM	D44LR1RA	Standard ratio roller, 0.81"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	4.45	2.79	2.28
483410CM	D44LR1RD	Standard ratio roller, 1.34"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.45	2.53	2.18
483428CM	D44LR1SC	Standard ratio slim roller	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	1.55	1.47	1.32
483436CM	D44LR1SD	Standard ratio slim roller	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.45	2.35	1.74
483444CM	D44LV3RA	Standard ratio roller, 0.81"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.250" dog leg	2.85	2.71	2.00

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## D4 Series Miniature Snap-Action Switches (Continued)

NEW

Part No.	Product No.	Lever Type	Contact Rating	NO/NC Terminals	Moving Blade	Contacts	Terminal Type	1	10	100
483250CM	D44CR1LA	Standard ratio lever, 0.865"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	\$2.85	\$2.09	\$1.81
483268CM	D44CR1LD	Standard ratio lever, 1.400"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	1.85	1.75	1.55
483356CM	D44LR1LA	Standard ratio lever, 0.865"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.05	1.93	1.83
483372CM	D44LR1LL	Standard ratio lever, 2.757"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.69	2.00	1.85
483381CM	D44LR1MD	High ratio lever, 1.40"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	1.89	1.80	1.59
483399CM	D44LR1ML	High ratio lever, 2.934"L	10A @ 125/250VAC	Brass	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.85	2.28	1.86
483461CM	D45AQ1NA	High ratio 1-way roller, 0.987"L	15A @ 125/250VAC	Copper	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	4.49	4.27	3.15
483532CM	D45CR1RA	Standard ratio roller, 0.81"L	15A @ 125/250VAC	Copper	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.39	2.49	2.15
483541CM	D45CR1RD	Standard ratio roller, 1.34"L	15A @ 125/250VAC	Copper	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	3.15	2.98	2.20
483647CM	D45LR1RA	Standard ratio roller, 0.81"L	15A @ 125/250VAC	Copper	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.55	2.42	2.14
483655CM	D45LR1RD	Standard ratio roller, 1.34"L	15A @ 125/250VAC	Copper	Beryllium copper	Silver alloy	Quick conn. 0.187" straight	2.75	2.59	2.46

See Our Cherry D48 & DN3 Series Miniature Snap-Action Offering at [www.Jameco.com/Prod/CherryMiniSnap](http://www.Jameco.com/Prod/CherryMiniSnap)

## DA Series Subminiature Snap-Action Switches

- Contact rating: 0.1A @ 125VAC
- Electrical life at rated load: 100,000 cycles per UL
- Temp. rating: -40°C to +85°C • UL94V-0 rated
- Case: thermoplastic polyester
- Actuating button: thermoplastic acetal
- Terminals: silver-plated bronze
- Moving blade: silver-plated beryllium copper
- Spring: copper coated stainless steel
- Auxiliary actuator and roller: stainless steel
- Contacts: gold cross point
- Recommended #2-56 round head screw



NEW

## DB Series Subminiature Snap-Action Switches

- High precision switch with high repeat accuracy
- Contact form: SPDT
- Flammability rating: UL94V-0 for PBT and PET materials; UL94HB for POM material
- Electrical life @ rated load: 6,000 operations per UL
- Mechanical life: 15 x 10<sup>6</sup> operations
- Base: PET (polyethyleneterephthalate)
- Cover: PBT (polybutyleneterephthalate)
- Actuator PBT, POM (polyacetal)
- Auxiliary actuator: stainless steel or plastic
- Terminals: silver-plated copper zinc
- Contacts: silver alloy gold cross point



NEW

Part No.	Product No.	Contact Form	Lever Type	Terminals	1	10	100
483680CM	DA3AF1RB	SPST NO	Standard ratio roller, 0.21"L	Quick conn. 0.093"	\$6.09	\$5.79	\$4.27
483727CM	DA3CB1RB	SPDT	Standard ratio roller, 0.21"L	Quick conn. 0.110"	4.35	4.10	3.77
483735CM	DA3CB1SB	SPDT	Std. ratio simuld roller, 0.197"L	Quick conn. 0.110"	5.29	4.22	3.44
483760CM	DA3CD1RB	SPDT	Standard ratio roller, 0.21"L	Short solder eyelet 0.110"	4.29	3.49	3.09
483778CM	DA3CD1SB	SPDT	Std. ratio simuld roller, 0.197"L	Short solder eyelet 0.110"	3.55	3.38	2.99
483786CM	DA3CD1UB	SPDT	Hi ratio simuld roller, 0.322"L	Short solder eyelet 0.110"	3.95	3.73	2.76
483831CM	DA3CF1RB	SPDT	Standard ratio roller, 0.201"L	Quick conn. 0.093"	5.25	4.07	3.33
483840CM	DA3CF1SC	SPDT	Std. ratio simuld roller, 0.258"L	Quick conn. 0.093"	4.59	4.35	3.21
483858CM	DA3CF1UA	SPDT	Hi ratio simuld roller, 0.235"L	Quick conn. 0.093"	5.65	4.18	3.61
483866CM	DA3CF1UB	SPDT	Hi ratio simuld roller, 0.322"L	Quick conn. 0.093"	3.95	3.73	2.76
483903CM	DA3CK1RB	SPDT	Standard ratio roller, 0.201"L	Solder eyelet 0.110"	5.15	4.88	3.60

Part No.	Product No.	Contact Rating	Lever Type	Terminals	1	10	100
483971CM	DB1CB1RB	5A @ 125/250VAC	Roller	Quick conn. 0.110" straight	\$2.89	\$2.30	\$1.88
483989CM	DB1CB1RC	5A @ 125/250VAC	Roller	Quick conn. 0.110" straight	2.89	2.31	1.89
484041CM	DB1CD5RC	5A @ 125/250VAC	Roller	PCB terminals left and side	3.05	2.40	1.96
484084CM	DB2CA1RC	10.1A @ 125/250VAC	Roller	Short solder	2.85	2.30	1.88
484105CM	DB2CB1RC	10.1A @ 125/250VAC	Roller	Quick conn. 0.110" straight	2.85	2.31	1.89
484156CM	DB3CB1SC	0.1A @ 125/250VAC	Simulated	Quick conn. 0.110" straight	1.95	1.60	1.37

## DG Series Subminiature Snap-Action Switches

- Contact form: SPDT
- Lever type: roller 0.075"L
- Small dimensions, just 0.504" x 0.228" x 0.256"
- Electrical life at rated load: 6,000 operations per UL
- Mechanical life: 1 x 10<sup>6</sup> operations
- Temp. rating: -25°C to +85°C
- Flammability rating: UL94V-0
- Base: PPHS (polyphenylene sulphide)
- Cover and actuator: PBT (polybutyleneterephthalate)
- Auxiliary actuator: stainless steel
- Terminals: silver-plated brass



NEW

## DH Series Subminiature Snap-Action Switches

- Electrical rating: DH3: 50 to 300mA @ 30VDC; DH4: 5 to 50mA @ 30VDC
- Ultraminiature dimensions
- Specially designed for low switching currents/voltages
- Temperature rating: -25°C to +70°C
- UL94V-0 flammability rating



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See Our Cherry DH Series Subminiature Snap-Action Offering at [www.Jameco.com/Prod/CherrySubSnap](http://www.Jameco.com/Prod/CherrySubSnap)

Part No.	Product No.	Contact Rating	Contacts	Terminals	1	10	100
484578CM	DG13B1RA	3A @ 125VAC, 2A @ 30VDC	Silver alloy	PCB straight	\$3.29	\$2.42	\$1.97
484607CM	DG13B3RA	3A @ 125VAC, 2A @ 30VDC	Silver alloy	PCB left side	2.49	2.29	1.98
484631CM	DG23B1RA	0.05A @ 30VDC	Gold flash, gold	PCB straight	3.49	2.58	2.10
484666CM	DG23B2RA	0.05A @ 30VDC	Gold flash, gold	PCB right side	3.89	2.87	2.48

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Place your order by 6PM EST for same business-day shipment.



## DC Series Sealed Subminiature Snap-Action Switches

- Electrical life at rated load: 6,000 operations per UL
- Mechanical life (min.): 1 x 10<sup>6</sup> operations
- Flammability rating: UL94V-0 (PET, PBT material); UL94HB (POM)
- Case: PET (polyethyleneterephthalate) / PBT (polybutyleneterephthalate)
- Actuator: POM (polyacetal)
- Auxiliary actuator: stainless steel or plastic
- Terminals: silver plated copper zinc

**NEW**



Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Contacts	Terminal Type	1	10	100
484228CM	DC1CA1RB♣	SPDT	Roller 0.098"L	5A @ 125/250VAC	Silver alloy	Short solder	\$6.95	\$5.78	\$5.01
484236CM	DC1CA1RC♣	SPDT	Roller 0.185"L	5A @ 125/250VAC	Silver alloy	Short solder	4.85	4.58	3.38
484252CM	DC1CB3RC♣	SPDT	Roller 0.185"L	5A @ 125/250VAC	Silver alloy	Lead wires	15.05	14.25	10.52
484287CM	DC1CD5RB♣	SPDT	Roller 0.098"L	5A @ 125/250VAC	Silver alloy	18AWG lead wires	12.49	11.87	8.76
484359CM	DC2CA1RB♣	SPDT	Roller 0.098"L	10.1A @ 125/250VAC	Silver alloy	Short solder	4.95	3.68	3.01
484367CM	DC2CA1RC♣	SPDT	Roller 0.185"L	10.1A @ 125/250VAC	Silver alloy	Short solder	4.45	4.21	3.11
484404CM	DC3AA1RC♣	SPST NO	Roller 0.185"L	0.1A @ 125/250VAC	Gold cross point	Short solder	5.65	5.35	3.95
484412CM	DC3BB3LB♣	SPST NC	Lever 0.189"L	0.1A @ 125/250VAC	Gold cross point	Lead wires	14.35	13.60	10.04
484447CM	DC3CA1RB♣	SPDT	Roller 0.098"L	0.1A @ 125/250VAC	Gold cross point	Short solder	5.15	4.90	3.62
484455CM	DC3CA1SB♣	SPDT	Simulated roller 0.098"L	0.1A @ 125/250VAC	Gold cross point	Short solder	4.75	4.50	3.33
484480CM	DC3CK6SC♣	SPDT	Simulated roller 0.185"L	0.1A @ 125/250VAC	Gold cross point	PCB terminals	4.99	4.72	3.49
484501CM	DC3CK7SC♣	SPDT	Simulated roller 0.185"L	0.1A @ 125/250VAC	Gold cross point	PCB terminals	4.99	4.72	3.49
484527CM	DC3CL1RC♣	SPDT	Roller 0.185"L	0.1A @ 125/250VAC	Gold cross point	Lead wires	5.85	5.53	4.08
484543CM	DC3CM5RB♣	SPDT	Roller 0.098"L	0.1A @ 125/250VAC	Gold cross point	20AWG lead wires	12.15	11.82	11.67



## E Series Miniature Snap-Action Switches

**NEW**

- Long life coil mechanism
- Temperature rating: -40°C to +85°C
- Actuating button: thermoplastic acetal
- NO & NC terminals: brass
- Roller: sintered stainless steel
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94HB
- Common terminals: silver plated brass
- Spring: stainless steel
- Case: general purpose phenolic
- Recommend #4-40 round head screw



424604CM



424891CM

425148CM

Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Moving Blade	Auxiliary Actuator	Contacts	Terminal Type	1	10	100
424461CM	E21-00K♣	SPDT	Roller 0.81"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	\$5.59	\$4.15	\$3.41
424524CM	E21-30K♣	SPDT	Roller	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	4.19	3.94	3.74
424559CM	E21-50HL♣	SPDT	Lever 1.580"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	5.55	5.24	4.98
424575CM	E21-50K♣	SPDT	Roller 1.34"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Short solder	4.29	4.07	3.61
424583CM	E21-50KX♣	SPDT	Roller 1.34"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	4.19	3.90	3.70
424591CM	E21-50N♣	SPDT	Straight plastic 1.382"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	5.45	5.17	4.91
424604CM	E21-50NX♣*	SPDT	Straight plastic 1.382"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.75	3.55	3.37
424612CM	E21-51K♣	SPST NO	Roller 1.34"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.55	3.37	3.20
424621CM	E21-51KX♣*	SPST NO	Roller 1.34"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.95	3.71	3.52
424639CM	E21-71KX♣*	SPST NO	Roller	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.65	3.48	3.30
424647CM	E21-75HX♣	SPDT	Straight 1.58"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.95	3.75	3.54
424655CM	E21-75KX♣*	SPDT	Roller 1.516"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.75	3.56	3.38
424671CM	E21-85HX♣	SPDT	Lever 2.932"L	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	7.39	5.49	4.46
424680CM	E21-90K♣	SPDT	Roller	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	6.05	5.74	5.45
424698CM	E21-92N♣	SPST NC	Simulated roller	0.1A @ 125VAC	Brass	Aluminum	Gold cross point	Quick connect	3.09	2.93	2.78
424735CM	E22-00K♣	SPDT	Roller 0.81"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	2.65	2.53	2.28
424823CM	E22-50K♣	SPDT	Roller 1.34"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	2.65	2.51	2.38
424831CM	E22-50KL♣	SPDT	Roller 1.516"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	3.65	2.77	2.28
424840CM	E22-50KX♣*	SPDT	Roller	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	2.95	2.79	2.65
424858CM	E22-50P♣	SPDT	Roller 1.34"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	4.55	4.32	4.10
424891CM	E22-75KX♣*	SPDT	Roller 1.516"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	2.65	2.49	2.37
424920CM	E22-90N♣	SPDT	Straight plastic 1.289"L	3A @ 125/250VAC	Brass	Aluminum	Silver alloy	Quick connect	2.29	2.18	2.07
424954CM	E23-00H♣	SPDT	Straight 0.865"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.29	2.18	2.07
424962CM	E23-00K♣	SPDT	Roller 0.81"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	3.85	2.82	2.33
424971CM	E23-00KX♣*	SPDT	Roller	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.85	2.70	2.56
424977CM	E23-20K♣	SPDT	Roller	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Solder terminal	2.79	2.65	2.51
425009CM	E23-40K♣	SPDT	Roller	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.85	2.69	2.55
425017CM	E23-50H♣	SPDT	Lever 1.40"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.39	2.26	2.15
425025CM	E23-50HL♣	SPDT	Lever 1.58"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.49	2.28	2.17
425033CM	E23-50HX♣	SPDT	Lever 1.40"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.49	2.35	2.23
425041CM	E23-50K♣	SPDT	Roller 1.34"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	3.85	2.82	2.33
425050CM	E23-50KX♣*	SPDT	Roller 1.34"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.69	2.56	2.43
425068CM	E23-50N♣	SPDT	Straight plastic 1.382"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.15	2.04	1.94
425076CM	E23-50P♣	SPDT	Roller 1.34"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	4.55	4.32	4.10
425105CM	E23-70KL♣	SPDT	Roller	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	3.05	2.90	2.75
425121CM	E23-75KX♣*	SPDT	Roller 1.516"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.89	2.74	2.60
425148CM	E23-90N♣	SPDT	Simul. roller plas. 1.289"L	5A @ 125/250VAC	Brass	Cold-rolled steel	Silver alloy	Quick connect	2.09	1.99	1.89

\*Light force type actuator

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)





## E Series Miniature Snap-Action Switches (Continued)

- Long life coil mechanism
- Temperature rating: -40°C to +85°C
- Actuating button: thermoplastic acetal
- Spring: stainless steel
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94HB
- Common terminals: silver plated brass
- Roller: sintered stainless steel
- Case: general purpose phenolic
- NO & NC terminals: brass
- Recommend #4-40 round head screw

NEW

425236CM



Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Moving Blade	Auxiliary Actuator	Contacts	Terminal Type	1	10	100
425236CM	E33-00K	SPDT	Roller 0.81"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	\$3.35	\$2.47	\$2.14
425244CM	E33-00KT	SPDT	Roller	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	3.19	3.03	2.88
425252CM	E33-01K	SPDT NO	Roller	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.55	2.41	2.29
425295CM	E33-10K	SPDT	Roller	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Screw terminal	5.69	5.40	5.13
425316CM	E33-20K	SPDT	Roller	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Solder terminal	2.65	2.52	2.39
425324CM	E33-40K	SPDT	Roller	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.89	2.73	2.59
425367CM	E33-50K	SPDT	Roller 1.340"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.35	2.23	2.07
425375CM	E33-50KL	SPDT	Roller 1.516"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.49	2.33	2.21
425383CM	E33-50KX	SPDT	Roller 1.340"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.65	2.49	2.37
425391CM	E33-50P	SPDT	Roller 1.340"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	5.59	5.30	5.03
425471CM	E33-75KX	SPDT	Roller 1.516"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	1.99	1.90	1.80
425498CM	E33-90N	SPDT	Simul. roller plas. 1.289"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.05	1.94	1.84
425501CM	E33-90NX	SPDT	Simul. roller plas. 1.289"L	6A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.09	1.96	1.86
455822CM	E34-00K	SPDT	Roller 0.810"L	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	3.55	2.71	2.23
455831CM	E34-00KX	SPDT	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.55	2.40	2.28
455881CM	E34-10K	SPDT	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Screw terminal	4.19	3.94	3.74
455890CM	E34-11K	SPDT NO	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Screw terminal	4.45	4.22	4.01
455902CM	E34-12K	SPDT NC	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Screw terminal	4.49	4.29	4.07
455929CM	E34-20K	SPDT	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Solder terminal	2.99	2.82	2.68
456008CM	E34-50KL	SPDT	Roller 1.516"L	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	2.65	2.52	2.39
456024CM	E34-50P	SPDT	Roller 1.340"L	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	4.35	4.13	3.92
456041CM	E34-70K	SPDT	Roller	15A @ 125/250VAC	Silver-pltd beryllium copper	Cold-rolled steel	Silver alloy	Quick connect	3.09	2.95	2.79

\* Light force type actuator



## E Series Miniature Snap-Action Switches, Low Torque

- Long life coil spring mechanism
- Electrical life: 6,000 operations per UL
- Case: general purpose phenolic
- Low torque rotary actuation
- Flammability rating: UL94HB
- Spring: stainless steel

NEW



Part No.	Product No.	Contact Form	Terminal Material	Contact Rating	Moving Blade	Actuator	Contacts	Terminal Type	1	10	100
456260CM	E53-00B	SPDT	Silver-plated brass	0.1A @ 125VAC	Brass	Wire clockwise	Gold cross point	Quick conn. 0.205"	\$12.85	\$9.49	\$7.71
456278CM	E53-00E	SPDT	Silver-plated brass	0.1A @ 125VAC	Brass	Wire counter-clockwise	Gold cross point	Quick conn. 0.205"	11.65	8.63	7.44
456286CM	E53-00R	SPDT	Silver-plated brass	0.1A @ 125VAC	Brass	Wire clockwise	Gold cross point	Quick conn. 0.187"	10.65	7.86	6.78
456294CM	E53-00T	SPDT	Silver-plated brass	0.1A @ 125VAC	Brass	Wire counter-clockwise	Gold cross point	Quick conn. 0.187"	7.55	7.14	6.78
456307CM	E53-50T	SPDT	Silver-plated brass	0.1A @ 125VAC	Brass	Wire counter-clockwise	Gold cross point	Quick conn. 0.187"	8.25	7.80	7.41



## K Series Miniature Snap-Action Switch

- Long mechanical life
- Electrical life at rated load: 100,000 operations per UL
- Temperature rating: -40°C to +85°C
- Button: thermoplastic acetal
- Moving blade: beryllium copper
- Wiping contact action
- Flammability rating: UL04V-0
- Case and cover: thermoplastic polyester
- Auxiliary actuator: cold-rolled steel (nickel plated)
- Recommend #4-40 round head for mounting
- Spring over actuators

NEW



Part No.	Product No.	Lever Type	Contact Rating	Terminal Material	Contacts	Terminal Type	1	10	100
512794CM	KWMAQACT	Roller standard ratio 1.340"L	15.1A @ 125/250VAC	Brass	Silver alloy	Quick connect 0.187"	\$3.29	\$3.14	\$2.32

See Our Additional Cherry Miniature Snap-Action Offering at [www.Jameco.com/Prod/CherryMiniSnap](http://www.Jameco.com/Prod/CherryMiniSnap)



## E Series Subminiature Snap-Action Switches

- Long life coil spring mechanism
- Temperature rating: -40°C to +85°C
- Actuating button: thermoplastic acetal
- Spring: stainless steel
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94HB
- Terminals: silver-plated commercial bronze
- Auxiliary actuator: cold-rolled steel (nickel-plated)
- Case: thermoplastic
- Recommend #2-56 round head

NEW

456366CM



Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Moving Blade	Contacts	Terminal Type	1	10	100
456366CM	E61-00K	SPDT	Roller 0.203"L	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	\$4.55	\$3.39	\$2.82
456374CM	E61-00KP	SPDT	Roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	5.25	4.95	4.70
456382CM	E61-00R	SPDT	Simulated roller 0.196"L	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	3.75	3.56	3.38
456391CM	E61-00RP	SPDT	Simulated roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	6.75	6.41	6.09
456438CM	E61-10K	SPDT	Roller 0.203"L	5A @ 125/250VAC	Beryllium copper	Fine silver	Short solder	4.55	3.39	2.82

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## E Series Subminiature Snap-Action Switches (Continued)

**NEW**

Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Moving Blade	Contacts	Terminal Type	1	10	100
456446CM	E61-10R	SPDT	Simulated roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Short solder	\$1.85	\$1.72	\$1.63
456497CM	E61-30K	SPDT	Roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	4.49	3.39	2.82
456526CM	E61-31K	SPST NO	Roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	2.15	2.01	1.91
456569CM	E61-50K	SPDT	Roller 0.326"L	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	3.59	3.39	3.14
456614CM	E61-60K	SPDT	Roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Short solder	4.85	3.58	3.09
456649CM	E61-80K	SPDT	Roller	5A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	4.85	3.58	3.09
456690CM	E62-00K	SPDT	Roller 0.203"L	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	4.59	3.42	3.04
456729CM	E62-02K	SPST NC	Roller 0.203"L	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	4.55	4.08	3.88
456753CM	E62-10K	SPDT	Roller	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Short solder	4.59	3.42	3.04
456809CM	E62-30K	SPDT	Roller	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	3.39	3.20	3.04
456833CM	E62-50K	SPDT	Roller 0.326"L	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	4.85	3.86	3.15
456850CM	E62-60K	SPDT	Roller	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Short solder	3.39	3.20	3.04
456876CM	E62-80K	SPDT	Roller	10.1A @ 125/250VAC	Beryllium copper	Fine silver	Quick connect	2.99	2.84	2.70
456913CM	E63-00K	SPDT	Roller 0.203"L	0.1A @ 125VAC	Beryllium copper	Gold cross point	Quick connect	7.05	5.33	4.48
456972CM	E63-10K	SPDT	Roller	0.1A @ 125VAC	Beryllium copper	Gold cross point	Short solder	7.05	5.33	4.48
457019CM	E63-30K	SPDT	Roller	0.1A @ 125VAC	Beryllium copper	Gold cross point	Quick connect	7.15	5.70	4.64
457094CM	E63-80K	SPDT	Roller	0.1A @ 125VAC	Beryllium copper	Gold cross point	Quick connect	4.99	4.72	4.48



## E72/E73 Series Sealed Subminiature Snap-Action Switches

- Moisture resistant
- Long life coil spring mechanism
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94V-0
- Boot: hydrin
- Potting: macromelt polyamide
- Water resistant, weatherproof hydrin boot
- Temperature rating: -40°C to +85°C
- Case & button: hi-temp thermoplastic nylon
- Recommended #6-32 round head screw

**NEW**



457431CM

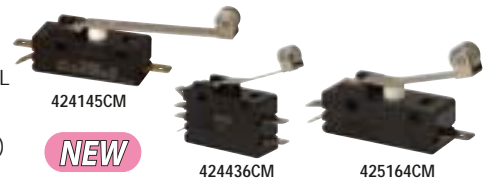
Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Actuator	Contacts	Terminal Type	1	10	100
457414CM	E72-42KT	SPST NC	Roller 0.650"L	10.1A @ 125/250VAC	Stainless steel	Silver alloy	Quick connect	\$11.75	\$8.73	\$7.44
457431CM	E73-40KT	SPDT	Roller 0.650"L	0.1A @ 125VAC	Stainless steel	Gold cross point	16AWG lead wires	10.55	10.00	9.50



## E Series General Purpose Snap-Action Switches

### Single and Double Pole

- Long life coil mechanism
- Temperature rating: 105°C standard
- Case: general purpose phenolic
- Terminals: 0.250" quick connect
- Rollers: sintered stainless steel
- Spring: stainless steel
- Electrical life at rated load: 6,000 operations per UL
- Flammability rating: UL94HB
- Actuating button: thermoplastic nylon
- Auxiliary actuators: cold-rolled steel (nickel plated)
- Recommended #6-32 round head screw



424145CM

424436CM

425164CM

Part No.	Product No.	Contact Form	Lever Type	Contact Rating	Common Terminal	NO/NC Terminal	Moving Blade	Contacts	1	10	100
424057CM	E13-01H	SPST NO	Lever 1.500"	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	\$3.79	\$2.80	\$2.41
424137CM	E13-50H	SPDT	Lever 1.500"	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	3.65	2.67	2.21
424022CM	E13-00K	SPDT	Roller 1.391"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	5.79	4.29	3.48
424065CM	E13-01K	SPST NO	Roller 1.391"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	3.39	3.20	3.04
424129CM	E13-11K	SPST NO	Roller 1.391"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	5.79	4.29	3.48
424145CM	E13-50K	SPDT	Roller 1.645"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	2.95	2.81	2.67
424161CM	E14-00H	SPDT	Lever 1.500"	25A @ 125/250VAC	Silver-plated brass	Copper	Silver-pl. beryllium copper	Silver-cadmium oxide	4.39	3.48	2.84
424250CM	E14-50K	SPDT	Roller 0.902"L	25A @ 125/250VAC	Silver-plated brass	Copper	Silver-pl. beryllium copper	Silver-cadmium oxide	3.39	3.22	3.06
424348CM	E19-50K	DPDT	Roller 0.902"L	15A @ 125/250VAC	Brass	Brass	Brass	Silver-cadmium oxide	10.19	7.52	6.10
424381CM	E20-00K	DPDT	Roller 0.652"L	20A @ 125/250VAC	Silver-plated brass	Copper	Silver-pl. beryllium copper	Silver-cadmium oxide	6.85	6.48	5.96
424436CM	E20-50K	DPDT	Roller 0.902"L	20A @ 125/250VAC	Silver-plated brass	Copper	Silver-pl. beryllium copper	Silver-cadmium oxide	7.65	7.26	6.51
425164CM	E30-00K	SPDT	Roller 0.652"L	30.1A @ 125/250VAC	Silver-plated brass	Copper	Silver-pl. beryllium copper	Silver-cadmium oxide	2.95	2.80	2.66

See Our Cherry E19A & G13 Series General Purpose Snap-Action Offering at [www.Jameco.com/Prod/CherryMiniSnap](http://www.Jameco.com/Prod/CherryMiniSnap)

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## Snap-Action Switches

### A Series General Purpose

- Low cost—high performance
- Insulation resistance: 1000MΩ min.
- Contact rating: 30.1A @ 277VAC
- Operating temp.: -55°C to +85°C

### LC Series Subminiature Precision

- Long life and high electrical capacity
- Insulation resistance: 1000MΩ min.
- Contact rating: 10.1A @ 250VAC
- Operating temp.: -25°C to +85°C

### MM Series Miniature Subminiature Precision

- Low level and power switching
- Increased overtravel
- Contact rating: 7A @ 250VAC
- Operating temp.: -55°C to +135°C
- Long electrical & mechanical life
- Reliable snap-acting mechanism
- Insulation resistance: 1000MΩ min.



A Series

LC Series

TF Series

### TM Series Miniature



- Cost-effective solution
- Insulation resistance: 1000MΩ min.
- Contact rating: 15A @ 250VAC
- Operating temp.: -55°C to +150°C

### TF Series Miniature

- Broad range of operating forces
- Insulation resistance: 1000MΩ min.
- Contact rating: 25A @ 277VAC
- Operating temp.: -40°C to +85°C

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See Our Complete C&K Snap-Action Switch Offering at [www.Jameco.com/Prod/CKSnap](http://www.Jameco.com/Prod/CKSnap)

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175

# Snap-Action, Thumbwheel & Pushwheel Switches

Color Code Legend			
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## GP Series Heavy-Duty Snap-Action Switches

- Ultra small travel differential
- Contact form: SPDT
- Mechanical life tested to 1 million cycles
- Contact rating: 15A @ 250VAC (UL); 15A @ 250V (VDE)
- Dielectric strength: 1000VAC 50/60Hz for 1 minute
- Insulation resistance: 100MΩ at 500VDC
- Initial contact resistance: 15mΩ max.
- Temp. range: -20°C to +85°C
- Case & cover: phenolic
- Spring: beryllium copper alloy
- Contacts: silver alloy
- Terminals: brass screw and copper alloy solder
- Lever actuator: stainless steel
- Roller type lever



Part No.	Product No.	Terminals	1	10	100
511919CM	GPSCRG01	Solder metric	\$12.75	\$8.48	\$7.31
511927CM	GPSCRG11	Solder US	7.35	6.98	6.27
511935CM	GPSCRH01	Solder metric	18.59	12.37	10.67
511943CM	GPSCRH02	Solder metric	18.59	12.37	10.67
511951CM	GPSCRH11	Solder US	18.95	12.62	10.52
511960CM	GPSCRH12	Solder US	18.59	12.37	10.31
511978CM	GPSCRM01	Solder metric	9.65	6.43	5.54
511986CM	GPSCRM11	Solder US	9.85	6.56	5.47
511994CM	GPSCRR01	Solder metric	8.79	5.86	5.05
512006CM	GPSCRR11	Solder US	4.99	4.71	4.23
512014CM	GPSCRS01	Solder metric	9.65	6.43	5.54
512022CM	GPSCRS11	Solder US	5.45	5.17	4.64
512170CM	GPTCRG01	Screw metric	12.05	8.02	6.92
512188CM	GPTCRG11	Screw US	12.05	8.02	6.68
512196CM	GPTCRH01	Screw metric	18.59	12.37	10.67
512217CM	GPTCRH11	Screw US	10.49	9.96	8.95
512225CM	GPTCRH12	Screw US	18.95	12.62	10.52
512233CM	GPTCRM01	Screw metric	9.65	6.43	5.54
512241CM	GPTCRM11	Screw US	5.89	5.61	4.94
512250CM	GPTCRR01	Screw metric	8.79	5.86	5.05
512268CM	GPTCRR11	Screw US	8.99	5.98	4.98
512276CM	GPTCRS01	Screw metric	9.65	6.43	5.54
512284CM	GPTCRS11	Screw US	9.85	6.56	5.47



## 3 Series Thumbwheel Switches

- Contact rating: carry – 1A continuous; switch – 100mA max.
- Operating voltage: 50mV to 28VDC or 120VAC
- Electrical life: 100,000 actuations
- Contact resistance: below 100mΩ typical initial @ 2-4VDC @ 100mA
- Insulation resistance: 10<sup>9</sup>Ω min.
- Dielectric strength: 500Vrms min.
- Housing and thumbwheel: ABS plastic
- Rotor contacts: precious metal on copper alloy
- Stator contacts: hard gold over nickel over copper
- Typical applications: test & measurement equipments, industrial equipment, computer devices



Part No.	Product No.	Terminals	Termination	1	10	50
577846CM	301109000	Decimal, SP 10 pos., snap-in front mount	Standard PCB	\$8.65	\$7.78	\$7.69
577854CM	301119000	Decimal, SP 10-pos., rear mnt.	Standard PCB	8.49	7.78	7.08
577862CM	301490100	Resistor decade, snap-in front mount	Extended PCB	10.45	9.42	9.31
577871CM	302109000	BCD, 10-position, snap-in front mount	Standard PCB	8.65	7.78	7.69
577900CM	302119000	BCD, 10-position, rear mount	Standard PCB	8.65	7.78	7.69
577942CM	307109000	BCH, 16-pos., snap-in fr. mnt.	Standard PCB	33.65	25.14	18.96
577951CM	307119000	BCH, 16-pos., rear mount	Standard PCB	33.65	25.14	18.96

## 3 Series Thumbwheel Switch Accessories

Part No.	Product No.	Description	1	10	50
577969CM	400402000	Black rear mount end plates, type 1	\$ .33	\$ .309	\$ .285
578005CM	412701000	Screw 0-80UNF thread, 3-4 front mount	1.89	1.78	1.73
578013CM	412702000	Screw 0-80UNF thread, 5-7 front mount	1.89	1.78	1.73
578021CM	412703000	Screw 0-80UNF thread, 8-10 front mount	2.59	2.06	1.85
578030CM	413402000	Black front mount end plates, type 0	1.30	1.23	1.20
578048CM	413502000	Blk fr. mnt. blank sections, 0.315" T, type 0 & 3	1.59	1.49	1.45

## 3P Series Miniature Pushwheel Switches

- Contact rating: carry – 1A continuous; switch – 0.4W max., 100mA max., 28VDC max.
- Operating voltage: 50mV to 28VDC
- Electrical life: 1,000,000 actuations
- Insulation resistance: 10<sup>9</sup>Ω min. (dry)
- Dielectric strength: 500Vrms min.
- Contact resistance: below 300mΩ typ. @ 2-4VDC, 100mA
- Rotor contacts: gold over nickel over copper alloy
- Stator contacts: hard gold over nickel over copper on epoxy fiberglass
- Pushwheel: polycarbonate
- Housing & pushbutton: polycarbonate (UL94V-0)

NEW



Part No.	Product No.	Terminals	Termination	1	10	50
569088CM	3P0210002	BCD 1-2-4-8, snap-in front mount w/ dust lens	Standard PCB	\$11.55	\$9.79	\$8.39
569109CM	3P0210A02	BCD 1-2-4-8, snap-in front mount w/ dust lens	Extended PCB with solder pins	10.45	9.57	8.70

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Alcoswitch

## Pushwheel Switches

- Contact rating: 0.4VA @ 20VDC
- Operating temp: -20°C to +80°C
- Front mount
- Mechanical life: more than 1,000,000 operations

### SMCD Series Mini Bidirectional

- Large visible readout characters
- Protected by dust-sealed windows
- Snap together grouping and snap-in panel mounting minimize installation time and cost

### DPS9 Series Bidirectional

- Dual pushbutton code switches have identical height but differ in width
- Can directly retrofit common thumbwheel switches



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Alcoswitch Pushwheel Offering at [www.Jameco.com/Prod/AlcoPushwheel](http://www.Jameco.com/Prod/AlcoPushwheel)

## Pushbutton Binary Coded Decimal (BCD) Switch

26788CM (2 switches shown)

## Thumbwheel Binary Coded Decimal (BCD) Switch

26817CM (2 switches shown)

### Pushbutton and Thumbwheel Switch Specifications:

- Contact resistance: 100mΩ max.
- 1/16" maximum panel thickness
- Gold plated BE-CU alloy contacts
- 0.15A @ 50VAC/28VDC
- Break before make
- Operating temperature: -40°C to +85°C
- Continuous load: 1 amp max.
- Front snap-tab mounting with end plates
- Switches snap together

Part No.	Cross Ref. No.	Description	Size (L" x W" x D")	Character Height	Pricing			
					1	10	50	100
26788CM	MX72	10-position pushbutton	1.2 x 0.3 x 1.7	0.19"	\$5.69	\$5.15	\$4.65	\$4.15
26761CM	MXEP2	Mounting end plates for 26788CM	1.2 x 0.2 x 1.1	—	1.15	.99	.89	.79
26817CM	MX83	10-position thumbwheel	1.2 x 0.3 x 1.9	0.25"	4.49	3.95	3.55	3.19
26770CM	MXEP3	Mounting end plates for 26817CM	1.2 x 0.2 x 1.3	—	1.05	.88	.84	.77

♣ Blue Part No. = Limited Quantity Available

♣ RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Mini Pushbutton BCD Switch

- Operating temperature: -10°C to +65°C
- 28VDC @ 10A
- Break before make
- Switches snap together
- Positive logic ("0" all open output)
- Size L = 0.59", W = 0.30", S = 1"
- Character height: 0.12"

Part No.	Cross Ref. #	Description	1	10	100
136557CM	MX061	10-pos. straight ..	\$3.79	\$3.41	\$3.06

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!





- Contact resistance: 0.1Ω max.
- Dielectric strength: 500V
- Max. non-switching current: 1A
- Housing material: PPO (noryl)
- Insulating resistance: 10,000MΩ
- Electrical rating: 0.1A/50V
- Mechanical cycle: 10,000,000 operations
- Contacts: WE alloy

## PA Series

- Selector switches with very small dimensions for front-mounting
- Printed circuit board: glass filled epoxy, copper-plated gold over nickel
- Mounting: front mounting, snap-in end caps
- Terminals: gold-plated quick connect terminal or solder pins



Part No.	Product No.	Description	Pos.	1	10	50
577037CM	PABA3000	Octal (0-7), short PCB	8	\$16.95	\$15.06	\$10.40
577045CM	PABA3114	Octal (0-7), short PCB	8	18.85	16.71	11.19
577053CM	PACA3000	BCD (0-9), short PCB	10	14.55	10.20	8.95
577061CM	PACA3100	BCD (0-9), short PCB	10	16.35	14.47	9.68
577070CM	PACA3114	BCD (0-9), short PCB	10	16.35	14.47	9.68
577088CM	PACA4000	BCD (0-9), extended PCB	10	17.75	15.80	10.91
577096CM	PAEA3000	BCD compliment (0-9), short PCB	10	22.45	20.00	13.81
577109CM	PAGA3100	Hexadecimal (0-9, A-F), short PCB	16	12.65	8.83	7.75
577117CM	PAGA3114	Hexadecimal (0-9, A-F), short PCB	16	12.65	11.22	8.73

## PA Series Accessories

Part No.	Product No.	Description	1	10	50
423599CM	609-0797	Housing, 7.62mm	\$.93	\$.83	\$.69

## Decimal/BCD/BCD Compliment/Hexadecimal for PA Series

Part No.	Product No.	Description	1	10	50
482425CM	C2K0N107	Solder pins without flange	\$5.29	\$5.00	\$4.13
482433CM	C2K0P107	Solder lugs without flange	3.75	3.33	3.13
482468CM	C2R0P8AD	Solder pins without flange, for decimal type	5.15	4.86	4.02

## Pushwheel Switches

### PB Series

- Selector switches with 6mm width for compact building of blocks with a larger number of modules
- Printed circuit board: copper-plated gold over nickel
- Mounting: front mounting, snap-in end caps
- Terminals: 0.6mm x 0.5mm solder pins with 2.54mm center spacing
- PCB flush with housing, with solder pins



Part No.	Product No.	Description	Pos.	1	10	50
577125CM	PBC1E015	BCD (0-9)	10	\$7.49	\$5.22	\$4.96

### PB Series Accessories

Part No.	Product No.	Description	1	10	50
423636CM	609-1346	Left endcap	\$.44	\$.42	\$.399
423644CM	609-1347	Right endcap	.44	.42	.399



### PE Series

- Selector switches for easy snap in front-mounting
- Printed circuit board: glass filled epoxy, copper-plated gold over nickel
- Terminals: quick connect gold-plated or solder pins

577150CM



Part No.	Product No.	Description	Pos.	1	10	50
577133CM	PEAA3000	Decimal (0-9), short PCB	10	\$16.85	\$14.98	\$10.34
577141CM	PECA3000	BCD (0-9), short PCB	10	16.45	14.61	10.08
577150CM	PECA4000	BCD (0-9), extended PCB	10	20.79	18.51	12.78
577168CM	PEEA3000	BCD compliment (0-9), short PCB	10	15.29	14.52	13.72
577176CM	PEGA3000	Hexadecimal (0-15), short PCB	16	22.65	15.83	13.90
577184CM	PEHA3000	Hexadecimal (0-9, A-F), short PCB	16	22.35	15.63	13.72

### BCD/BCD Compliment/Hexadecimal for PE Series

Part No.	Product No.	Description	1	10	50
482450CM	C2R0P111	Solder pins without flange	\$3.75	\$3.33	\$3.01
482476CM	C2RFN116	Solder lugs with flange	4.05	3.56	3.34

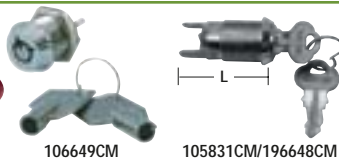
## Jameco ValuePro SPST Round Keylock Switches

- Used in computer & other security systems
- Key removable from 2 positions
- Two keys
- Mounting hole = 0.75" except P/N 106649CM = 0.5"

196648CM: all keys are alike

Includes: Mounting nut

Blue Part No. = Limited Quantity Available



Part No.	Cross Ref. No.	No. Flat, Dia.	Length	Terminal	Voltage/Current	1	10	50	100
106649CM	KS4B	2, 0.21"	0.55"	Barrel	125VAC/3A	\$3.59	\$3.29	\$2.89	\$2.49
105831CM	KS3B	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	3.99	3.59	3.29	2.99
196648CM	3313E-M	2, 0.66"	1.48"	0.25" quick connect	125VAC/6A	4.49	3.99	3.65	3.29



## Keylock Switches

- Contact rating: 2A @ 250VAC/4A @ 28VDC
- Includes nut & 2 keys
- 621317CM: 2.1A @ 46VDC (96VAC); includes nut, screw, ring, & key

Part No.	Product No.	Poles	Lock Type	Key Removal	Terminal	Mounting Hole (ins.)	1	10	50
621317CM	35-196	SPST on-off	5 disk tumbler	2	Screw	0.875	\$13.69	\$12.98	\$12.33
621843CM	35-3192	DPDT on-on	4 tumbler w/ detent	2	Solder eyelet	0.760	14.45	13.36	12.22
621851CM	35-3193	SPDT on-on	6 tumbler w/ tube lock	2	6" wire	0.76 x 0.64	16.45	15.15	13.84
621860CM	35-3194	SPDT on-on	6 tumbler w/ tube lock	1	6" wire	0.76 x 0.64	15.15	13.75	12.68
621878CM	35-3195	SPDT on-(on)	4 tumbler	1	6" wire	0.76 x 0.64	14.05	12.92	11.80
621886CM	35-3197	SPDT on-on-on	4 tumbler	1	Solder lug	0.76 x 0.6	12.05	11.03	10.02

NEW

621317CM



621860CM



## Keylock Switches

### A Series 4 & 5 Tumbler 1-4 Poles

- Contact rating: 2.5A @ 125VAC; 350mA @ 125VDC

### BY Series 4 Tumbler Value Added Security

- Contact rating: 4A @ 125VAC/28VDC; 2A @ 250VAC

### H Series 4 & 6 Tumbler Power

- Contact rating: 12A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC

A Series

BY Series



### P Series 4 Tumbler Snap-in

- Contact rating: 4A @ 125VAC; 1A @ 250VAC

### W Series 4 & 6 Tumbler

- Contact rating: 4A @ 125VAC; 2A @ 250VAC

### Y Series 4, 5 & 6 Tumbler

- Contact rating: 4A @ 125VAC/28VDC; 2A @ 250VAC

P Series

Y Series



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete C&K Keylock Switch Offering at [www.Jameco.com/Prod/CKKeylock](http://www.Jameco.com/Prod/CKKeylock)

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# Pushbutton Switches

**RoHS** RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave

JAMECO ValuePro

A Jameco EXCLUSIVE

## Pushbutton Switches



Fig. 1



Fig. 2

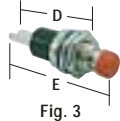


Fig. 3



Fig. 4

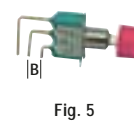


Fig. 5

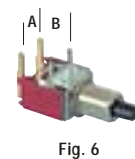


Fig. 6



Fig. 7

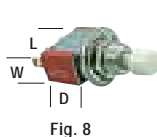


Fig. 8



Fig. 9

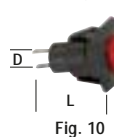


Fig. 10



Fig. 11



Fig. 12

Part No.	Cross Ref. No.	Fig.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (L" x W" x D")	Lead Spacing		Contact Rating	Terminal Type	Button Color	Pricing				
							A"	B"				1	10	100	500	1000
315432CM	R13-23A-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	\$1.29	\$1.20	\$ .99	\$ .92	\$ .87
315483CM	R13-23B-R	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Red	1.29	1.19	.99	.92	.87
315441CM	R13-23A-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315491CM	R13-23B-B	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Black	1.29	1.19	.99	.92	.87
315459CM	R13-23A-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315504CM	R13-23B-BL	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Blue	1.29	1.19	.99	.92	.87
315467CM	R13-23A-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315512CM	R13-23B-W	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	White	1.29	1.19	.99	.92	.87
315475CM	R13-23A-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315521CM	R13-23B-Y	1	2	31/64"	SPST off-(on)	1.13 (D) x 1.53 (E)	.20	—	3A @ 125VAC	Solder	Yellow	1.29	1.19	.99	.92	.87
315598CM	R13-40A-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.35	1.23	1.10	.99	.93
315619CM	R13-40B-R	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Red	1.59	1.45	1.33	1.21	1.13
315580CM	R13-40A-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.35	1.23	1.10	.99	.93
315601CM	R13-40B-B	2	2	31/64"	SPST off-(on)	.98 (D) x 1.56 (E)	.20	—	3A @ 125VAC	Solder	Black	1.59	1.45	1.33	1.21	1.13
26622CM	MS102	3	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.55	.50	.45	.35	.29
26649CM	MS103	3	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.55	.50	.45	.35	.29
315643CM	R13-81-R	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Red	1.45	1.32	1.19	1.06	.94
315635CM	R13-81-B	4	2	13/64"	SPST off-(on)	.44 (D) x .78 (E)	.08	—	.5A @ 125VAC	PC terminal	Black	1.45	1.32	1.19	1.05	.94
154879CM	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	1.99	1.89	1.79	1.69	1.59
71642CM	SWB210	6	2	7/32"	SPST off-(on)	.36 x .20 x .33	.20	.20	1A @ 120VAC	PC right angle	Black	2.19	1.99	1.78	1.60	1.39
202999CM	BB16	7	3	1/4"	SPDT on-on	.39 x .35 x .35	.18	.10	0.1A @ 28VAC	Solder right angle	White	1.18	1.09	.90	.85	.82
121304CM	CK8121	8	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	5A @ 125VAC	Solder lugs	White	3.59	3.25	2.95	2.65	2.39
28062CM	PB126	8	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.69	3.35	2.99	2.69	2.45
355451CM	J1881	9	2*	3/8"	SPST on-(off) Alt†	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	White	1.19	1.09	.94	.83	.72
355489CM	J1882	9	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VAC	5" Pigtail	Red	1.09	.98	.88	.79	.70
174414CM	R13-510A	10	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	.79	.78	.77	.74	.69

### Other Manufacturers

154878CM	PS11-123	5	3	1/4"	SPDT on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	\$1.79	\$1.70	\$1.61	\$1.51	\$1.43
200774CM	TP12SH8AOE	7	3	7/32"	SPDT off-(on)	.32 x .20 x .33	.20	.10	1A @ 120VAC	PC right angle	Black	4.79	4.35	3.65	2.75	1.99
22200CM	J1881	11	2*	3/8"	SPST on-off, Alt†	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.98	.83	.67	.50
22218CM	J1882	11	2*	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	.99	.88	.79	.71	.62
307899CM	DS133	12	2	29/64"	SPST off-(on)	1.03 x .56 x .46	—	—	10A @ 125VAC	Solder Lugs	Black	4.15	3.75	3.49	3.14	2.83

† Alt = alternate action

\* Lead wires

JAMECO ValuePro

## Miniature Pushbutton Switches

• 6A@125V or 3A@250V

• Epoxy sealed

• Material: Alkyd base (UL94V-0), stainless steel cover



Part No.	Cross Ref. No.	Pins	Mounting Hole Dia.	Type ( ) Momentary	Dimensions (D" x E")	Lead Spacing		Contact Rating (A @ VAC)	Terminal Type	Button Color	Pricing				
						A"	B"				1	10	100	500	1000
315395CM	PA101A1-B/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	\$2.79	\$2.53	\$2.28	\$2.05	\$1.93
315387CM	PA101A1-R/BL	2	1/4"	SPST on-off	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.79	2.53	2.28	2.05	1.93
315379CM	PA102A1-B/BL	3	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Black	2.89	2.63	2.37	2.14	1.99
315408CM	PA102A1-R/BL	3	1/4"	SPDT on-on	1.2 x 1.7	.185	—	6 @ 125	Solder	Red	2.89	2.63	2.37	2.14	1.99

### Other Manufacturers

447072CM	TP32Y0030050†	3	1/4"	SPST on-on	0.7 x 0.8	.11	—	0.4 @ 20	Solder	Black	\$2.59	\$2.37	\$2.13	\$1.90	\$1.75
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† Sub miniature

## Switchcraft® Button-Switch® & Cord-Switch®

297300CM: Button-Switch®

• SPST-on (on) • Color: black • Mounting hole size: .469" • Panel thickness: .297" max.  
• Rating: 250mA, 30W maximum, AC, non-inductive load • Compatible with P/N 297502CM

297502CM: Cord-Switch®

• Copper alloy plated housing and switch bushing • Maximum cable side diameter: .375"  
• SPST-on (on) red pushbutton switch (same rating as P/N 297300CM) • Plastic insulation

Part No.	Product No.	Description	1	10	25
297300CM	913	Button-switch	\$2.55	\$2.36	\$2.23
297502CM	ED903	Cord-switch	10.49	8.55	8.43



## Switch Grab Bags

18235CM: 50 pcs. assorted – toggle, pushbutton, rocker and slide switches

135378CM: 1 lb. (approx. 135 pcs.) assorted – toggle, pushbutton, rocker and slide switches



Part No.	Cross Ref. No.	Wt. (lbs.)	1	10
18235CM	GB165	0.4	\$8.75	\$7.69
135378CM	GB165LB	1.0	18.95	16.95

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

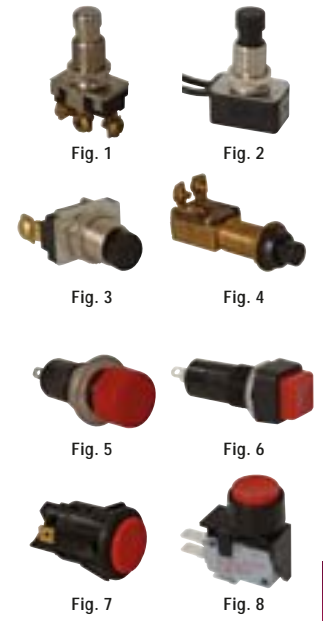


## Standard Pushbutton Switches

- Typical applications: computer equipment & peripherals, telecommunications, networking equipment, instrumentation, detection, medical & test equipment
- Mounting hardware included

NEW

Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	1	10	100
621907CM	35-3425	1	0.50"	SPST on-off	10A @ 125VAC	Screw	Chrome metal	0.415"	\$5.15	\$4.70	\$4.28
621915CM	35-3427	1	0.50"	SPST NO (on)-off	15A @ 125VAC	Screw	Chrome metal	0.415"	4.25	3.90	3.57
621923CM	35-3429	1	0.50"	SPST NC on-(off)	15A @ 125VAC	Screw	Chrome metal	0.415"	4.89	4.43	4.07
621958CM	35-3454	2	0.50"	SPST on-(off)	10A @ 125VAC	6" lead wires	Chrome metal	0.41"	4.69	4.24	3.87
621966CM	35-3457	3	0.50"	SPST NO (on)-off	6A @ 125VAC	Screw	Black plastic	0.212"	2.69	2.47	2.26
621974CM	35-3458	3	0.50"	SPST NC (off)-off	3A @ 120VAC	Screw	Red plastic	0.212"	2.89	2.65	2.42
622002CM	35-3484	4	0.641"	SPST NO off-(on)	25A @ 6VDC	Screw	Black chrome	0.49"	10.09	9.22	8.41
622011CM	35-3490	1	0.50"	SPDT on-off	15A @ 125VAC	Screw	Chrome metal	0.415"	6.95	6.36	5.81
616850CM	35-420	5	0.50"	SPST NO off-(on)	3A @ 250VAC	Solder eyelet	Red plastic	0.354"	1.25	1.13	1.03
616868CM	35-421	6	0.50"	SPST NO off-(on)	3A @ 250VAC	Solder eyelet	Red plastic	0.244"	1.65	1.49	1.37
616876CM	35-422	6	0.50"	SPST on-off	3A @ 250VAC	Solder eyelet	White plastic	0.354"	4.55	3.96	3.41
616884CM	35-423	—	0.687"	SPST NO off-(on)	3A @ 125VAC	Solder eyelet	Red plastic	0.125"	1.79	1.65	1.54
616905CM	35-432	—	0.50"	SPST NC on-(off)	6A @ 125VAC	Solder eyelet	Chrome metal	0.468"	8.25	7.55	6.96
616930CM	35-449	—	0.50"	SPST on-off	6A @ 125VAC	Screw	Chrome metal	0.415"	7.05	6.17	5.37
616964CM	35-455	7	1.02"	SPST on-off	16A @ 125VAC	0.250" QC	Red plastic	0.157"	5.95	5.34	4.78
616972CM	35-457	5	1.02"	SPST NO (on)-off	16A @ 125VAC	0.250" QC	Red plastic	0.157"	5.75	4.97	4.29
616981CM	35-458	—	0.50"	SPST NC (off)-off	3A @ 120VAC	Screw	Red plastic	0.212"	9.35	8.12	7.04
616999CM	35-459	5	1.02"	SPST NO (on)-off	16A @ 125VAC	0.250" QC	Black plastic	0.157"	5.19	4.59	4.07
617043CM	35-473	8	0.465"	SPDT NO/NC	15A @ 250VDC	0.250" QC	Red plastic	0.283"	6.15	5.65	5.19



## Mini Pushbutton Switches

- Typical applications: computer equipment & peripherals, telecommunications, networking equipment, instrumentation, detection, medical & test equipment
- Mounting hardware included

NEW



Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	1	10	100
621982CM	35-3460	9	0.375"	SPST on-off	6A @ 125VAC	6" lead wires	Brass canopy	0.36"	\$2.89	\$2.65	\$2.42
621991CM	35-3471	10	0.50"	SPST NC on-(off)	2A @ 120VAC	Screw	White round	0.465"	2.75	2.53	2.32
616729CM	35-400	11	0.172"	SPST NO off-(on)	0.5A @ 125VAC	Solder lug	Black pin	0.175"	4.75	4.20	3.70
616737CM	35-402	12	0.172"	SPST NC on-(off)	0.25A @ 125VAC	Solder lug	Black pin	0.175"	7.39	6.56	5.77
616745CM	35-404	13	0.250"	SPDT on-on	3A @ 125VAC	Solder eyelet	Black round	0.315"	4.99	4.50	4.05
616753CM	35-405	13	0.250"	DPDT on-on	3A @ 125VAC	Solder eyelet	Black round	0.315"	6.35	5.57	4.83
616761CM	35-406	14	0.343"	SPST on-off	3A @ 125VAC	Solder eyelet	Black round	0.315"	4.55	3.95	3.43
616770CM	35-408	14	0.343"	SPDT on-on	3A @ 125VAC	Solder eyelet	Black round	0.315"	4.09	3.69	3.33
616788CM	35-409	14	0.343"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black round	0.315"	3.75	3.36	3.02
616809CM	35-411	15	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black round	0.157"	.99	.87	.77
616817CM	35-412	16	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black square	0.157"	3.05	2.64	2.29
616825CM	35-413	17	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Black rectangle	0.157"	3.05	2.64	2.29
616833CM	35-415	18	0.5"x0.437"	SPST NO (on)-off	1A @ 125VAC	0.187" QC	Red square	0.10"	1.45	1.27	1.11
616841CM	35-417	17	0.431"	SPST NO (on)-off	3A @ 125VAC	Solder eyelet	Red rectangle	0.157"	3.05	2.64	2.29
616948CM	35-450	19	0.25"	SPDT NC on-(off)	1A @ 120VAC	Solder eyelet	White pin	0.218"	6.25	5.53	4.88
616956CM	35-451	20	0.25"	DPDT NC on-(on)	1A @ 120VAC	Solder eyelet	White pin	0.218"	8.45	7.30	6.25
617051CM	35-475	21	0.50"	SPST NO (on)-off	0.5A @ 125VAC	6.3mm tab	Black round	0.39"	4.65	4.34	4.01
617115CM	35-491	22	—	DPDT (on)-(on)	0.5A @ 100VAC	PCB solder	Black button	0.406"	3.55	3.41	3.28
617705CM	35-852	23	0.375"	SPST on-off	6 @ 125VAC	6" lead wires	Black canopy	0.344"	2.55	2.40	2.27



## Lighted Pushbutton Switches

- Typical applications: instrumentation, networking equipment, telecommunications, detection, test equipment

NEW

Part No.	Product No.	Fig.	Mounting Hole Dia.	Type ( ) Momentary	Key Contact Rating	Terminal Type	Button Color/Material	Actuator length	1	10	100
621894CM	35-3412	24	0.638"	SPDT NC/NO	4A @ 250VAC	Solder eyelet	Rectangle	0.196"	\$21.89	\$19.98	\$18.25
621931CM	35-3432	25	0.638"	SPDT NC/NO	4A @ 250VAC	Solder eyelet	Rectangle	0.196"	14.45	13.21	12.02
617078CM	35-480	26	1.1"x0.88"	SPST on-off	10A @ 125VAC	0.250" QC	Red square	0.36"	7.59	6.94	6.34
617094CM	35-484	26	1.1"x0.88"	SPST on-off	10A @ 125VAC	0.250" QC	Green square	0.36"	7.59	6.94	6.34
617107CM	35-490	27	0.563"	DPDT on-off	8A @ 125VAC	PCB solder	Round orange	0.75"	22.79	21.51	20.26



▲ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Color Code Legend			
New	Sale	Lower\$	Qty\$ave





## Pushbutton Switches

- Contact rating: 3A @ 125VAC • 2-pin • Lead type: solder terminal
- 164566CM/164638CM: Contact rating: .5A @ 125VAC 164582CM/164671CM: Contact rating: 1A @ 125VAC
- 106112CM: Contact rating: 3A @ 110VAC

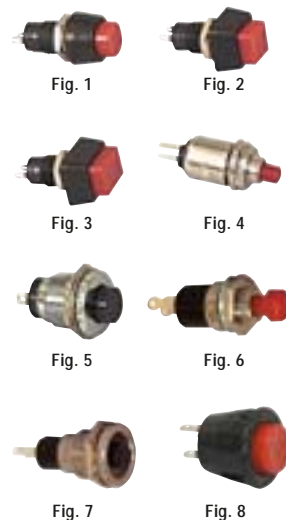
### Miniature Soft Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164494CM	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	\$2.09	\$2.05	\$1.97	\$1.88
164486CM	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	2.15	2.05	1.95	1.85
164523CM	DS466R	2	SPST off-(on)	1.2"L x .60"Sq.	.160"	.383"	Red	1.95	1.87	1.81	1.74
164558CM	DS471R	3	SPST off-(on)	1.2"L x .75"Sq.	.160"	.387"	Red	2.39	2.29	2.19	2.09

### Standard Touch Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Dimensions	Lead Spacing	Thread Diameter	Button Color	Pricing			
								1	10	100	500
164566CM	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	\$1.15	\$1.14	\$1.10	\$1.06
164582CM	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.59	1.54	1.48	1.42
164638CM	MS3120R	6	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	1.65	1.49	1.34	1.26
164671CM	NS801MOB	7	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	2.45	2.05	1.94	1.77
106112CM	DS412R	8	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	1.05	1.03	.99	.98

\* Solder lugs



## Pushbutton Switches

### IP and AV Series Panel Mount Pushbutton Switches

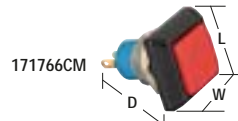
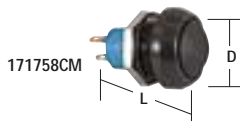
#### 171758CM /171766CM: IP Series

- Initial contact resistance: 50mΩ max.
- Insulation resistance: 1GΩ min. @ 500VDC • Mounting hole: 1/2"Dia. • Dielectric strength: 1500Vrms min. • Mechanical life: 1,000,000 cycles min.

#### 171774CM: AV Series

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. • Mounting hole: 3/4"Dia. • Dielectric strength: 1000Vrms min.

Part No.	Product No.	Pins	Type ( ) Momentary	Dimensions			Lead Spacing	Contact Rating	Terminal Type	Pricing			
				L	W	D				1	10	100	250
171758CM	IPR3SAD2	2	SPST off-(on)	0.82"	—	0.46"	0.19"	0.2A @ 250VAC	Solder	\$10.39	\$9.35	\$8.45	\$7.49
171766CM	IPC3SAD6	2	SPST off-(on)	0.82"	0.69"	0.46"	0.19"	0.2A @ 250VAC	Solder	10.39	9.35	8.45	7.49
171774CM	AV191003C900	2	SPST off-(on)	1.20"	—	0.87"	0.37"	0.2A @ 48VDC	Screw	11.95	10.84	9.75	8.79



## Panel Mount/Line Interrupt Pushbutton Switches

- UL 94V-0 flammability rating

### E65/E68/E69/E75/E77/E78/E79/

### F68/F69/F78/F79 Series Snap-In Panel Mount

- UL1054 rating: E65/E75: 16A, 125/250VAC; E68/E78/F68/F78: 0.1A, 125VAC; E69/E79/F69/F79: 10A, 125/250VAC; E77: 0.1A, 125VAC

- Long-life coil spring, snap-action mechanism
- Temp. rating: -40°C to +85°C
- Electrical life @ rated load: 6,000 cycles min.

### F81/F82/F83 Series Line Interrupt

- UL1054 rating: F81: 10A, 125/250VAC; F82: 16A, 125/250VAC; F83: 0.1A, 125/250VAC

- Double make/break shorting bars • High overtravel
- Temp. rating: -25°C to +85°C • Snap-in panel mounting

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



E Series



F Series

See Our Complete Panel Mount & Line Interrupt Pushbutton Offering at [www.Jameco.com/Prod/CherryPB](http://www.Jameco.com/Prod/CherryPB)



## Pushbutton Switches

- 30/32 Series • SPST • 1A @ 115VAC
- 39 Series • 1/4" butt contact • 0.5A @ 115VAC
- 4000 Series • Wiping contact • 3A @ 115VAC

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Grayhill Pushbutton Offering at [www.Jameco.com/Prod/GrayhillIPB](http://www.Jameco.com/Prod/GrayhillIPB)



## Alcoswitch Pushbutton Switches

- MPA Series • Wire Lug or PC tails/Panel mount • 6A @ 125VAC

- MPB Series • Subminiature/Panel mount • 3A @ 125VAC

- MPE Series • Splashproof/Wire lug/Panel mount • 6A @ 125VAC

- MPG Series • Mustang/Wire lug or PC tails • 6A @ 125VAC

- MPS Series • Snap action/Wire lug • 3A @ 115VAC

### MSPM Series

- Long Life/Magnetic reed • 1.0VA optimum

### MSPF Series

- Front and rear entry mounts • 0.5A @ 125VAC

### MSP/MSPS Series • 2.5mm travel/Panel mount

- (MSP) 3A @ 125VAC • (MSPS) 3A @ 125VAC

### Illuminated Command Series

- Selector & keylock switches • Pilot Light indicators and lens sets

### Pushbutton Accessories also available

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Alcoswitch Pushbutton Offering at [www.Jameco.com/Prod/AlcoPB](http://www.Jameco.com/Prod/AlcoPB)



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## 8020 Series Snap-Acting Momentary Pushbutton Switches

- Positive tactile feel
- Plunger: glass filled nylon or glass filled polyester (UL94V-0)
- Typical applications: instrumentation, computer peripherals, telecommunications equipment
- Contact form: SPDT ON-MOM • Plunger height: 0.218" • Length: 1.03"
- Electrical life: 60,000 make and break cycles @ full load • Dielectric strength: 1,000VRMS
- Contact resistance: below 50mΩ typical initial @ 2-4VDC, 100mA
- Insulation resistance: 1,000MΩ min. • Housing: stainless steel
- Cap and frame: nylon, black • Bushing: brass or zinc, nickel plated
- Switch support: brass or steel, tin plated • Case: glass filled nylon 6/6 or diallyl phthalate (UL94V-0)
- Common contact & all terminals: copper alloy with gold plate over nickel • Terminal seal: epoxy
- N.O. & N.C. contacts: 8121 series – coin silver with gold plate over nickel; 8125 series – copper alloy with gold plate over nickel

**Includes:** Nut, locking ring, & lockwasher

**NEW**



Part No.	Product No.	Contact Rating	Contact Plating	Bushing	Terminal	Description	1	10	100	500
576350CM	8121J81Z3GE22	1A @ 120VAC/28VDC	Gold over silver	—	Quick connect	Snap-in w/ frame	\$7.89	\$7.22	\$6.87	\$6.52
575744CM	8121J83ZGE22	1A @ 120VAC/28VDC	Gold over silver	—	Solder lug	Snap-in w/ frame & flush cap	7.75	7.07	6.06	4.76
575752CM	8121J85ZGE22	1A @ 120VAC/28VDC	Gold over silver	—	Solder lug	Snap-in w/ frame & LED	9.95	9.08	7.78	7.05
575664CM	8121SD2GE	1A @ 120VAC/28VDC	Gold over silver	0.280"H, keyway	—	Standard plunger	7.35	6.51	5.50	4.18
576000CM	8121SHZGE	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger	7.35	6.96	5.48	4.79
576376CM	8125J81ZBE22	0.4VA @ 20VAC/VDC	Gold	—	Solder lug	Snap-in	5.79	5.51	4.34	3.80
575613CM	8125J82ZBE22	0.4VA @ 20VAC/VDC	Gold	—	Solder lug	Snap-in w/ frame for LED	5.89	5.61	4.42	3.86
575939CM	8125SD9ABE	0.4VA @ 20VAC/VDC	Gold	0.280"H, keyway	Right angle PCB	Standard plunger	5.49	5.21	4.11	3.59
576018CM	8125SHCBE	0.4VA @ 20VAC/VDC	Gold	0.250"H, flat	PC terminal	Standard plunger	5.15	4.87	3.83	3.35
575998CM	8125SHZBE	0.4VA @ 20VAC/VDC	Gold	0.250"H, flat	Solder lug	Standard plunger	5.05	4.77	3.76	3.29

### UL/CSA Versions

596799CM	U811SH2GE	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger, SPDT ON-MOM	\$9.25	\$8.77	\$6.78	\$5.48
596801CM	U821SH2ZGE	1A @ 120VAC/28VDC	Gold over silver	0.250"H, flat	Solder lug	Standard plunger, DPDT ON-MOM	11.25	10.31	8.24	6.44



## 8060 Series Alternate Action and Momentary Pushbutton Switches

- Long travel
- Long life contact design
- Typical applications: instrumentation, computers & peripherals, telecommunications & networking equipment
- Length: 1.185" • Terminals: solder lug
- Contact rating: 6A @ 120VAC/28VDC; 3A @ 250VAC
- Electrical life: 50,000 make & break cycles @ full load
- Contact resistance: below 20mΩ typical initial @ 2.4VDC, 100mA
- Insulation resistance: 1,000MΩ min.
- Dielectric strength: 1,000VRMS
- Case: glass filled nylon 6/6 or diallyl phthalate (UL94V-0)
- Plunger: glass filled nylon or glass filled polyester 0.710"H w/ 0.375"Dia. cap
- Bushing: brass or zinc, nickel plated 0.3"H flat, high torque
- Cap and frame: nylon, black • Housing: stainless steel
- Switch support: brass or steel, tin plated • Terminal seal: epoxy

**Includes:** Nut, locking ring, and lockwasher



**NEW**

Part No.	Product No.	Contact Plating	1	10	100
575824CM	8161SHZGE2	Gold over silver	\$5.55	\$5.08	\$4.34
575795CM	8161SHZQE2	Silver	5.29	4.89	4.14



## 8700 Series Overtravel Pushbutton Switch

- Typical applications: telecommunications, high-end instrumentation, medical & test equipment, detection
- Contact form: SPST OFF-MOM
- Length: 1.65" • Plunger height: 0.390"
- Continuous plunger seal • Heavy duty brass plunger
- Electrical life: 100,000 actuations @ full load
- Contact resistance: below 30mΩ typical initial @ 2-4VDC, 100mA
- Insulation resistance: 10,000Ω min.
- Dielectric strength: 1,000VRMS
- Case: diallyl phthalate (UL94V-0) • Plunger: PBT polyester, black
- Bushing: brass, nickel plated • Terminal seal: epoxy

**Includes:** Nut and lockwasher



**NEW**

Part No.	Product No.	Contact Rating	Terminals	1	10	100
576940CM	8732S1HZQE	0.4VA@20VAC/VDC	Solder lug (gold)	\$5.15	\$4.92	\$4.61



## 8500 Series Subminiature Pushbutton Switches

- Typical applications: detection, telecommunications networking equipment, computers & peripherals
- Contact form: SPST OFF-MOM • Length: 1.047"
- Contact rating: 1A @ 120VAC or 28VDC
- Electrical life: 250,000 actuations @ full load
- Contact resistance: below 3mΩ typical initial @ 2-4VDC, 100mA • Insulation resistance: 1,000MΩ min.
- Case: glass filled phenolic or diallyl phthalate (UL94V-0)
- Cap & frame: nylon, black • Bushing: brass, nickel plated
- Contacts: coin silver, silver plated • Button color: black
- Terminals: copper alloy, silver plated • Terminal seal: epoxy

**Includes:** Nut and lockwasher



**NEW**

Part No.	Product No.	Plunger	Terminals	1	10	100
576296CM	8531MCQE2	0.150"H	PC Terminal	\$4.25	\$3.89	\$3.33
576325CM	8531MZQE2	0.150"H	Solder Lug	4.19	3.80	3.26
576093CM	8531TZQE2	15/32" actuator bushing	Solder Lug	4.75	4.31	3.69



## E010 Series Sealed Momentary Pushbutton

- Process sealed, withstands soldering & cleaning
- Long life contact design
- Typical applications: instrumentation, telecommunications & networking equipment, computers & peripherals
- Length: 1.322" • Contact form: SPDT ON-MOM
- Contact rating: 4A @ 125VAC/28VDC
- Electrical life: 40,000 make & break cycles @ full load
- Contact resistance: below 20mΩ typical initial @ 2-4VDC, 100mA • Insulation resistance: 1,000MΩ min.
- Dielectric strength: 1,000VRMS
- Case & bushing: glass filled nylon 6/6 (UL94V-0)
- Plunger: glass filled nylon or glass filled polyester (UL94V-0) with internal o-ring seal, 0.222"H • Switch support: brass or steel, tin plated
- Switch support retainer: stainless steel
- Center contacts & all terminals: coin silver, silver plated or copper alloy with gold over nickel • Terminal seal: epoxy

**Includes:** Nut, locking ring and lockwasher



**NEW**

Part No.	Product No.	Plunger	Terminals	1	10	100
581933CM	E112SD1V3BE	0.460"H V-bracket	Gold	\$6.49	\$6.10	\$4.74

**30-Day Money-Back Guarantee**

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181



## EP Series Sealed Tiny Pushbutton Switches

NEW

- Typical applications: telecommunications & networking equipment, computers & peripherals, instrumentation & control
- Sealed against solder & cleaning processes
- Length: 0.872" • Contact form: SPDT ON-MOM
- Electrical life: 30,000 make & break cycles @ full load
- Insulation resistance: 1,000MΩ min.
- Switch support: brass, tin plated
- Case & bushing (unthreaded): glass filled nylon 6/6 (UL904V-0); surface mount – high temp. glass filled nylon 4/6 (UL94V-0)
- Plunger: thermoplastic polyester or glass filled nylon (UL04V-0); surface mount – high temp. glass filled nylon 4/6 (UL94V-0) 0.215"H
- Snap-fitting actuator accepts standard caps
- Contact rating: 0.4VA @ 20VAC/VDC
- Contact resistance: below 20mΩ typical initial @ 2-4VDC, 100mA
- Dielectric strength: 1,000VRMS
- Contacts & terminals: copper alloy • Terminal seal: epoxy



Part No.	Product No.	Plunger/Bushing	Contacts	Description	1	10	100	500
584093CM	EP12FPD1ABE	Flush plunger, unthreaded bushing	PC terminals, gold	Right angle	\$5.55	\$5.12	\$4.06	\$3.20
584157CM	EP12SD1V3BE	0.215"H plunger, unthreaded bushing	Gold	Vertical mount, V-bracket	6.45	5.12	4.06	3.20
584106CM	EP12SD1ABE	0.215"H plunger, unthreaded bushing	PC terminals, gold	Right angle	5.69	5.38	4.06	3.58
584122CM	EP12SD1CBE	0.215"H plunger, unthreaded bushing	PC terminals, gold	Standard	5.35	5.06	3.82	3.37



## TP Series Tiny Pushbutton Switches

NEW

- Typical applications: telecommunications & networking equipment, computers & peripherals, instrumentation & control
- Electrical life: TP12 – 30,000 ; TP21 – 60,000 make & break cycles @ full load
- Contact resistance: below 20mΩ typical initial @ 2-4VDC, 100mA
- Dielectric strength: 1,000VRMS
- Plunger: thermoplastic polyester (UL94V-0), 0.155"H
- Housing: stainless steel
- Insulation resistance: 1,000MΩ min.
- Case: glass filled nylon 6/6 or diallyl phthalate (UL94V-0)
- Bushing: brass, nickel plated; 0.220"H flat
- Switch support: brass, tin plated • Terminal seal: epoxy



Includes: Nut, locking ring, & lockwasher

Part No.	Product No.	Contact Rating	Contact Form	End Contacts	Center Contact & Terminals	Description	1	10	100	500
596588CM	TP12SH9ABE	0.4VA @ 20VAC/VDC	SPDT ON-MOM	Copper alloy w/ gold over nickel	Copper w/ gold over nickel	Right angle, PC terminal	\$6.69	\$6.39	\$6.11	\$3.29
596596CM	TP23SH9AVBE	0.4VA @ 20VAC/VDC	SPDT ON-MOM	Copper alloy w/ gold over nickel	Copper w/ gold over nickel	Vert. right angle, PC terminal	6.69	6.39	6.11	3.29
596617CM	TP12SH9V3BE	0.4VA @ 20VAC/VDC	SPDT ON-MOM	Copper alloy w/ gold over nickel	Copper w/ gold over nickel	Vert. mount, V-bracket	6.65	6.36	6.08	3.10
596625CM	TP12SHZQE	1A @ 120VAC/28VDC	SPDT ON-MOM	Coin silver, silver plated	Copper alloy silver plated	Solder lug	6.25	5.95	5.69	3.80
596633CM	TP21SHZQE	1A @ 120VAC/28VDC	DPST OFF-MOM	Coin silver, silver plated	Copper alloy silver plated	Solder lug	9.55	9.12	8.72	5.29



## GP Series Sealed Ultra-miniature Pushbuttons

NEW

- Typical applications: telecommunications & networking equipment, computers & peripherals products, instrumentation
- Ultra-miniature design saves space
- Process compatible, withstands most soldering and washing design
- Sealed construction – internal o-ring & epoxy base
- Contact resistance: below 50mΩ typical initial @ 2-4VDC, 100mA • Contact rating: 0.4VA @ 20VAC/VDC
- Mechanical & electrical life: 40,000 make & break cycles @ full load
- Insulation resistance: 1,000MΩ min. • Dielectric strength: 500VRMS
- Housing and base: glass filled nylon 4/6 (UL94V-0)
- Actuator: glass filled nylon 4/6 (UL94V-0) with internal o-ring seal
- Switch support: brass, tin plated
- Movable contact: copper alloy with gold over nickel
- Stationary contacts: (thru-hole models) copper alloy with gold over nickel
- Terminals: copper alloy with tin-lead over nickel • Terminal seal: epoxy/urethane



Part No.	Product No.	Contact Form	Terminals	1	10	100
584691CM	GP11MCKE	SPST OFF-MOM	PC terminals	\$4.75	\$4.34	\$3.72
584721CM	GP12MCKE	SPDT ON-MOM	PC terminals	5.19	4.75	4.06



## KM Series Subminiature Pushbutton

- Typical applications: alarm systems, computers, detector switch applications
- Reliable contact design
- Contact form: SPST OFF-MOM
- Bushing/mounting style: 1/4-40 thread, 0.225"H
- Contact rating: 250mA @ 125VAC/VDC
- Electrical life: 10,000 actuations min. @ full load
- Contact resistance: below 30mΩ typical initial @ 2-4VDC, 100mA
- Insulation resistance: 1,000MΩ min.
- Dielectric strength: 1,000VRMS
- Housing and bushing: nylon 6/6, black (UL94V-2)
- Actuator: nylon 6/6 (UL94V-2) natural, internal o-ring seal
- Movable contact: silver
- Stationary contacts & terminals: copper, silver plated
- Return spring: music wire, phosphor coated
- Mounting nut: brass, nickel plated • Terminal seal: epoxy
- Length: 1.27"
- Actuator diameter: 0.122"



Part No.	Product No.	Terminals	1	10	100
583171CM	KM1101RR05Q	0.110" QC	\$2.35	\$2.11	\$1.81



## Pushbutton Switches

- 8600 Series Microminiature
- NE-18 Series Mains/Power
- PHA Series Short Stroke
- E020 Series Sealed Snap-Acting Momentary
- Lumotast® 75 Series Illuminated Momentary & Latching



E020 Series

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[www.Jameco.com/Prod/CKPushbutton](http://www.Jameco.com/Prod/CKPushbutton)

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## PN Series Alternate & Momentary Action Pushbutton Switch

- Typical applications: computers & peripherals, instrumentation & measurement equipment, non-power on-off switch applications
- Contact rating: 200mA @ 30VDC
- Electrical life: 10,000 make & break cycles @ full load
- Mechanical life: 10,000 on/off cycles
- Contact resistance: 50mΩ max. initial, 100mΩ max. @ end of full life
- Insulation resistance: 100MΩ min. @ 500VDC
- Dielectric strength: 500VAC min.
- Movable contacts: silver plated phosphor bronze
- Frame: tin plated steel
- Base: laminated phenolic
- Return spring: music wire
- Return spring & retainer ring: nickel plated steel
- Actuator: polyacetal
- Terminals: silver plated brass
- Detent spring & spring plate: phosphor bronze
- Terminal seal: epoxy



NEW

Part No.	Product No.	Contact Form	1	25	100
588449CM	PN11SHNA03QE	SPDT MOM non-shorting	\$ .95	\$ .80	\$ .70

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## Alcoswitch Oil-Tight Pushbutton Switches

### Reliant 22 series

- 6A @ 600VAC
- Metal and plastic bushings

### RM/RT Series

- 22mm/momentary

### SR Series

- Pilot light/full voltage

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See Our Alcoswitch Oil-Tight Switches Offering at [www.Jameco.com/Prod/AlcoOilTight](http://www.Jameco.com/Prod/AlcoOilTight)



## Alcoswitch Tiny Pushbutton Switches

### TP Series

- Gold: 0.4VA Max. @ 20VDC;
- Silver: 1A @ 125VAC
- Straight or right angle
- Single or dual actuators
- Threaded or unthreaded

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See Our Alcoswitch Tiny PB Offering at [www.Jameco.com/Prod/AlcoTinyPB](http://www.Jameco.com/Prod/AlcoTinyPB)



## OMRON PCB Plunger Switch

### Use in Place of Shorting Block

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L
- 10 piece minimum

**Quantity SAVE**

Part No.	Description	10	100	1000
172700CM	Plunger switch	\$ .10	\$ .085	<b>\$ .064</b>



## Save Big! Special Values!

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Exceptional Quantity Discounts = Green

## Hardware Accessories for C&K Pushbutton Switches

**NEW**

### Snap-In Frames

- Color: black

Fig. 1



Fig. 2



For 7000/8020/8500/E/E010/E020/TP Series  
 J50/J60/J80/J90 Actuators (Fig. 1)

Part No.	Product No.	Panel Thickness	1	10	100
578056CM	432602263	0.062"	\$ .66	\$ .64	\$ .63
578064CM	432702263	0.090"	\$ .66	\$ .64	\$ .63

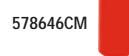
For 7000/E Series, J1/J2 Actuators (Fig. 2)

Part No.	Product No.	Panel Thickness	1	10	100
578099CM	452802263	0.090"	\$ .39	\$ .368	\$ .341
578072CM	452602263	0.125"	\$ .39	\$ .368	\$ .341

### Toggle Caps

For 7000/9000/E Series

- Height: 0.383"



Part No.	Product No.	Color	1	10	100
578620CM	896801000	White	\$ .51	\$ .486	\$ .42
578646CM	896803000	Red	\$ .51	\$ .501	\$ .488

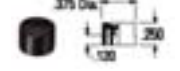
### Caps for .122"Dia. Switch Plunger

.310"Dia. Pushbutton Caps  
 for 8020/8060/E010/E020/  
 KM11/L Series



Part No.	Product No.	Color	1	10	100
578574CM	801806000	Green	\$ .72	\$ .684	\$ .65
578540CM	801801000	White	\$ .71	\$ .68	\$ .61
578558CM	801802000	Black	\$ .33	\$ .315	\$ .297
578566CM	801803000	Red	\$ .71	\$ .68	\$ .64

.375"Dia. Pushbutton Caps  
 for 8020/8060/E010/E020/  
 KM11/L Series



Part No.	Product No.	Color	1	10	100
578435CM	752701000	White	\$ .39	\$ .368	\$ .341
578443CM	752702000	Black	\$ .33	\$ .315	\$ .306
578451CM	752703000	Red	\$ .53	\$ .504	\$ .475

.395"Dia. Pushbutton Cap  
 for 8020/8050/E010/  
 E020/L Series



Part No.	Product No.	Color	1	10	100
578591CM	894102000	Black	\$ .71	\$ .68	\$ .61

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## Replacement Switches for AT-Style Computer Cases

### PC Pushbutton Switch

- Alternate action double pole switch
- Contacts rated at 250VAC
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D

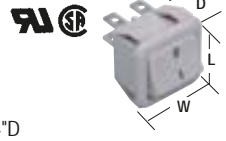
**SALE**



Part No.	Description	Current	1	10	100
174238CM	PC push button	8A	\$ .94	\$ .85	\$ .78

### PC Rocker Switch

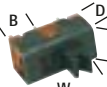
- For mini-tower cases
- Contacts rated at 250VAC
- UL/CSA approved
- DPST
- Size: 0.9"L x 1.2"W x 1.4"D



Part No.	Description	Current	1	10	100
127028CM	PC rocker	10A	\$ 2.95	\$ 2.69	\$ 2.39

## Slide Switches

- Two mounting flanges
- Top actuation
- Nylon actuator
- Phenolic insulated



109170CM



161816CM



204142CM



202770CM

\* 10 piece minimum

Part No.	Pins	Type	Description	Housing Material #	Dimensions			Lead Spacing		Contact Rating	Lead Length	Actuator Height	Pricing			
					L"	W"	D"	A"	B"				1	10	100	250
109170CM	3	SPDT on-on	PC mount	Plastic	.22	.45	.23	—	.12	0.5A @ 50VDC	.17"	.15"	\$ .31	\$ .26	\$ .23	\$ .19
161816CM	6	DPDT on-on	PC mount	Plastic	.38	.14	.13	.13	.11	0.1A @ 20VDC	.11"	.08"	\$ .59	\$ .49	\$ .39	\$ .29



### Other Manufacturers — Great Deals

204142CM	3	SPDT on-on*	PC mount	Plastic	.77	.40	.37	—	.19	2.0A @ 28VDC	.19"	.17"	\$ .28	\$ .16	\$ .15	\$ .13
22770CM	6	SPDT on-on	PC mount	Plastic	.35	.70	.30	.17	.20	0.1A @ 30VDC	.16"	.32"	*	\$ .095	\$ .087	\$ .079

† Plastic — flanges \*Side actuated # Plastic: 6/6 nylon; metal: steel zinc plated

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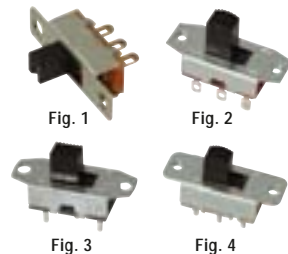


## Slide Switches

NEW

- Panel mount
- Black plastic actuator

Part No.	Product No.	Fig.	Contact Form	Contact Rating	Terminal Type	1	10	100
621325CM	35-202	1	SPDT on-on	0.3A @ 30VAC	Solder lug	\$1.35	\$1.29	\$1.23
621333CM	35-204	2	DPDT on-on	0.3A @ 30VAC	Solder lug	1.35	1.24	1.13
621341CM	35-201	3	SPDT on-on	6A @ 125VAC	PCB lug	1.59	1.51	1.44
621472CM	35-222	4	DPDT on-on	6A @ 125VAC; 3A @ 250VAC	PCB lug	1.25	1.15	1.06
621481CM	35-242	2	DPDT on-on	11A @ 125VAC	Solder lug	1.65	1.56	1.48



## Alcoswitch

## Slide Switches

### MM Series

- Double-wipe contacts for low resistance
- Contacts rated: 100mA @ 30VDC/peak AC
- Initial contact resistance: 20mΩ max.

### MHS Series

- Subminiature slides feature moving contact for positive wiping action
- Contact rating: Silver: 300mA @ 125VAC; Gold: 0.4VA @ 20VDC

### MSS Series

- Compact PC board slide switches upright and right angle
- Silver contacts rated 300mA @ 125VAC

### SS Series

- Contact rating: Gold: 0.4VA max. @ 20VDC; Silver: 100mA @ 30VDC
- Initial contact resistance: 30mΩ max. • Insulation resistance: 100MΩ min.

### SE Series

- Contact rating: 0.4VA @ 20VDC • Initial contact resistance: 50mΩ max.
- Dielectric strength: 500VAC for 1 min.

### SLS Series

- Contact rating: 250mA @ 125VAC, 150mA @ 12VDC
- Dielectric strength: 500VAC
- Initial contact resistance: 30mΩ max.
- Insulation resistance: 500MΩ min.

### TSS Series

- Non-shorting, gold-plated contacts: 0.4VA max. @ 20VDC/peak AC
- Pin spacing: 0.100" (2.54mm) on centers

### STS Series

- PC mount units, bifurcated contacts rated 300mA @ 125VAC/30VDC
- Initial contact resistance: 20mΩ max.
- Wave solderable and washable

### AS Series

- Withstand aqueous or solvent cleaning processes
- High temperature antistatic plastic • Auto insertable slides
- Type ASE: extended actuator and Type ASF: DIP package available



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## Slide Switches



### 1000 Series Miniature

- Epoxy terminal seal – compatible with bottom-wash cleaning
- Contact rating: 0.4VA max. @ 20VAC/DC max. or 6A @ 120VAC/28VDC; 3A @ 250VAC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Operating temp.: -30°C to +65°C
- Insulation resistance: 1000MΩ min.

### ES Series Sealed Tiny

- Reliable contact design ensures long electrical life
- Contact rating: 0.4VA max. @ 20VAC/DC max.
- Insulation resistance: 1000MΩ min.
- Operating temp.: -30°C to +85°C
- Dielectric strength: 500V<sub>RMS</sub> min.

### GS Series Sealed Ultraminiature

- Ultraminiature design saves PCB space
- Contact rating: 0.4VA max. @ 20VAC/DC max.
- Dielectric strength: 500V<sub>RMS</sub> @ sea level
- Operating temp.: -30°C to +85°C
- Insulation resistance: 1000MΩ min.

### L Series Miniature

- Contact rating: 4A @ 125VAC/28VDC; 2A @ 250VAC; 0.5A @ 125VDC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Enclosed housing
- Positive detent
- Insulation resistance: 1000MΩ min.

### S Series Standard

- Contact rating: 6A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC or 12A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC or 15A @ 125VAC; 6A @ 250VAC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Enclosed housing
- Insulation resistance: 1000MΩ min.

### TS Series Tiny

- Reliable contact design ensures long electrical life
- Contact rating: 0.4VA max. @ 20VAC/DC max. or 3A @ 120VAC/28VDC or 1A @ 120VAC/28VDC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Operating temp.: -30°C to +85°C
- Insulation resistance: 1000MΩ min.

### V Series Power & Line Voltage Select

- Actuators with screwdriver slot
- Contact rating: 10.1A max. @ 125VAC; 4A @ 28VDC; 5A @ 250VAC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Operating temp.: -30°C to +85°C
- Insulation resistance: 1000MΩ min.

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## Alcoswitch Rocker/Paddle Switches

### TRD Series

- Contact rating: silver 3A max. @ 125VAC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Insulation resistance: 1000MΩ @ 500VDC
- Contact resistance: 20mΩ max.
- Operating temp.: -20°C to +85°C

### PRA/PRB/PRD Series Snap-In

- Current: 16A @ 125VAC; 10A @ 250VAC
- Dielectric strength: >1000VAC, 1 min.
- Insulation resistance: >100MΩ min.
- Operating life endurance: up to >100,000 operations

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See Our AlcoSwitch Rocker Switches Offering at [www.Jameco.com/Prod/AlcoRocker](http://www.Jameco.com/Prod/AlcoRocker)



## Inline Cord Switch

- Contact form: SPST on-off
- Contact rating: 6A @ 20VDC
- Terminal: solder
- Black plastic body

NEW

Part No.	Product No.	1	10	100
621270CM	35-1851	\$4.75	\$4.56	\$4.38

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!

## Rocker Switches

JAMECO ValuePro

A Jameco EXCLUSIVE



Part No.	Cross Ref. No.	Fig.	Pins	Type () Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Lead Space		Dimensions (L"xW"xD")	Pricing		
											A"	B"		1	10	100
316451CM	R13-243A-02	1	2	SPST on-off	8 @ 125	.78"L x .28"W	Panel mnt	.187" quick conn.	Black	Rectangle	0.35	—	.83 x .37 x .85	\$1.39	\$1.26	\$1.14
316478CM	R13-243F-02	1	2	SPST (on)-off	8 @ 125	.78"L x .28"W	Panel mnt	.187" quick conn.	Black	Rectangle	0.35	—	.83 x .37 x .85	2.05	1.88	1.69
196154CM	R30NSA	2	2	SPST on-off	15 @ 125	1.07"L x .43"W	Panel mnt	.250" Quick conn.	Solid black	Rectangle	0.45	—	1.07 x .42 x .77	1.75	1.59	1.44
316013CM	R13-66A-B-02	3	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Black top	Rectangle	0.31	—	.83 x .59 x .47	.99	.86	.56
316021CM	R13-66A-R-02	4	2	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red top	Rectangle	0.31	—	.83 x .59 x .47	.99	.86	.56
316128CM	R13-73B-R-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.49	1.35	1.22
316136CM	R13-73B-Y-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Yellow illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.49	1.35	1.22
316144CM	R13-73B-G-02	5	3	SPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Green illum.	Rectangle	0.35	0.35	.83 x .59 x .87	1.65	1.50	1.35
316048CM	R13-66B-G-02	6	3	SPST on-off	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Green illum.	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.67
140531CM	CK7101	7	3	SPDT on-on	5 @ 120	—	PC mount	PC right angle	Solid black	Rectangle	0.15	—	.50 x .50 x .27	1.49	1.34	1.21
316056CM	R13-66C-B-02	6	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Solid black	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	.96	.60
316064CM	R13-66C-R-02	6	3	SPDT on-on	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Solid red	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	.96	.60
316072CM	R13-66D-B-02	6	3	SPDT on-off-on	16 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Black (I-O-I)	Rectangle	0.31	0.31	.83 x .59 x .47	1.19	1.02	.80
316110CM	R13-73A2-B-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Solid black (I-O)	Rectangle	0.20	0.34	.83 x .59 x .87	1.69	1.58	1.42
316152CM	R13-73C-R-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Red illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.05	1.88	1.69
316161CM	R13-73C-Y-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Yellow illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.05	1.88	1.69
316179CM	R13-73C-G-02	8	4	DPST on-off	10 @ 125	.78"L x .52"W	Panel mnt	.187" quick conn.	Green illum.	Rectangle	0.20	0.34	.83 x .59 x .87	2.25	2.04	1.84

### Other Manufacturers — Great Deals

140530CM	CK7101	7	3	SPDT on-on	5 @ 120	—	PC mnt. vert.	PC right angle	Black	Rectangle	0.15	—	.50 x .50 x .27	\$1.49	\$1.34	\$1.21
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GG

## Rocker Switches

NEW

### Standard Appliance Rocker Switches





Part No.	Product No.	Fig.	Type () Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
621561CM	35-3030	1	SPST on-off	16 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	\$2.19	\$1.92	\$1.68
622184CM	35-3600	2	SPST on-off	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	3.89	3.40	2.98
622192CM	35-3610	2	SPDT on-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	4.75	4.15	3.64
622205CM	35-3620	2	SPDT on-off-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	4.75	4.15	3.64
622213CM	35-3630	2	DPST on-off	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	5.49	4.79	4.18
622221CM	35-3640	2	DPDT on-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	5.95	5.19	4.53
622248CM	35-3660	2	DPST (on)-off	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	6.35	5.55	4.85
622256CM	35-3670	2	DPST (off)-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	6.35	5.55	4.85
622264CM	35-3680	2	DPDT (on)-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	7.55	6.61	5.79
622272CM	35-3690	2	DPDT (on)-off-on	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	7.55	6.61	5.79
622281CM	35-3695	2	DPDT (on)-off-(on)	15 @ 125	0.83" x 1.45"	Panel mount	0.250" quick connect	Black	Rectangle	7.59	7.02	6.52
622299CM	35-3710	2	SPDT on-on	16 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	Black	Rectangle	2.49	2.13	1.84
622301CM	35-3720	2	SPDT on-on	16 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	Black	Rectangle	2.49	2.13	1.84
622361CM	35-3760	3	SPST (on)-off	15 @ 125	0.55" x 1.25"	Panel mount	0.250" quick connect	White	Rectangle	2.35	2.04	1.78
617211CM	35-620	4	DPST on-off	15 @ 125	0.866" x 1.102"	Panel mount	0.250" quick connect	Red w/ on/off	Rectangle	3.75	3.25	2.84
617238CM	35-640	5	SPDT on-on	16 @ 125	1.1" x 0.453"	Panel mount	0.250" quick connect	Black	Rectangle	2.55	2.22	1.96
617300CM	35-654	6	DPST on-off	20 @ 125	1.0" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	3.55	2.99	2.53
617473CM	35-695	2	SPDT (on)-off-(on)	16 @ 125	0.55" x 1.12"	Panel mount	0.250" quick connect	Black	Rectangle	4.25	3.52	2.93
617449CM	35-691	7	SPST on-off	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	2.15	1.80	1.52
617457CM	35-693	7	SPST on-off	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black w/ red on/off	Rectangle	2.15	1.90	1.71
617465CM	35-694	7	SPDT on-off-on	16 @ 125	0.55" x 1.125"	Panel mount	0.250" quick connect	Black	Rectangle	2.35	2.07	1.84

### Lighted Mini Rocker Switches

Part No.	Product No.	Fig.	Type () Momentary	Contact Rating (A @ VAC)	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
617271CM	35-645	8	SPST on-off	10 @ 125	0.755" x 0.508"	Panel mount	Solder eyelet	Lighted red LED	Rectangle	\$5.15	\$4.67	\$4.29
617289CM	35-646	8	DPST on-off	10 @ 125	0.755" x 0.508"	Panel mount	Solder eyelet	Lighted red LED	Rectangle	6.05	5.28	4.63
617377CM	35-680	9	SPST on-off	5 @ 125	0.512" x 0.750"	Panel mount	0.187" quick connect	Lighted orange LED	Rectangle	5.89	4.46	3.24
617385CM	35-681	9	SPST on-off	5 @ 125	0.512" x 0.750"	Panel mount	0.187" quick connect	Lighted green LED	Rectangle	5.89	4.46	3.24
617393CM	35-682	8	SPST on-off	5 @ 125	0.512" x 0.750"	Panel mount	0.187" quick connect	Lighted red LED	Rectangle	6.49	5.07	3.77

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 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

Order 24/7 Toll Free 1-800-831-4242

185



# Rocker Switches (Continued)

Color Code Legend			
New	Sale	Lower\$	QtySave



## Automotive/Marine Rocker Switches

## Rocker Switches (Continued)

**NEW**



Part No.	Product No.	Fig.	Type Q Momentary	Contact Rating	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
622029CM	35-3500	10	SPST on-off	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent amber	Rectangle	\$6.85	\$5.95	\$5.20
622037CM	35-3505	10	SPST on-off	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent green	Rectangle	6.85	5.95	5.20
622045CM	35-3510	10	SPST on-off	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent red	Rectangle	6.85	5.95	5.20
622053CM	35-3515	10	SPST on-off	20A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent blue	Rectangle	6.85	5.95	5.20
622061CM	35-3520	10	DPDT on-off-on	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent amber	Rectangle	8.85	7.70	6.73
622070CM	35-3530	10	DPDT on-off-on	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent red	Rectangle	8.85	7.70	6.73
622088CM	35-3535	10	DPDT on-off-on	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent blue	Rectangle	8.85	7.70	6.73
622096CM	35-3540	10	SPST (on)-off	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent amber	Rectangle	7.05	6.15	5.39
622109CM	35-3550	10	SPST (on)-off	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent red	Rectangle	7.05	6.15	5.39
622117CM	35-3560	10	DPDT (on)-off-(on)	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent amber	Rectangle	9.65	8.40	7.35
622125CM	35-3565	10	DPDT (on)-off-(on)	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent green	Rectangle	9.65	8.40	7.35
622133CM	35-3570	10	DPDT (on)-off-(on)	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent red	Rectangle	9.65	8.40	7.35
622141CM	35-3575	10	DPDT (on)-off-(on)	200A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	12V Incandescent blue	Rectangle	9.65	8.40	7.35
622150CM	35-3580	11	SPST on-off	15A @ 125VAC	0.83" x 1.45"	Panel mount	0.250" quick conn.	None	Rectangle (blk)	5.85	5.10	4.47
622168CM	35-3585	11	DPDT on-on	20A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	None	Rectangle (blk)	8.09	7.02	6.12
622176CM	35-3590	11	DPDT on-off-on	20A @ 12VDC	0.83" x 1.45"	Panel mount	0.250" quick conn.	None	Rectangle (blk)	8.35	7.24	6.37

## Miniature Rocker Switches

Part No.	Product No.	Fig.	Type Q Momentary	Contact Rating	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
617123CM	35-602	12	SPDT on-on	4A @ 125VAC	0.35" x 0.734"	Panel mount	Solder lug	Black	Rectangle	\$4.15	\$3.38	\$2.71
617131CM	35-603	12	SPDT on-on	4A @ 125VAC	0.35" x 0.734"	Panel mount	Solder lug	Black	Rectangle	5.15	4.15	3.33
617140CM	35-604	12	SPDT on-on	4A @ 125VAC	0.35" x 0.734"	Panel mount	Solder lug	Black	Rectangle	4.49	3.65	2.97
617158CM	35-605	13	SPST on-off	8A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red "O"	Rectangle	1.75	1.41	1.14
617166CM	35-606	13	DPDT on-on	8A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	2.19	1.78	1.44
617174CM	35-607	13	SPST on-off	11A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	1.79	1.44	1.17
617182CM	35-608	13	DPST on-off	8A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	2.25	1.80	1.44
617191CM	35-609	13	SPDT on-on	8A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black w/ red indicating	Rectangle	1.65	1.32	1.07
617203CM	35-615	14	SPDT on-on	4A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	Black	Rectangle	4.59	3.69	2.90
617246CM	35-642	15	SPST on-off	10A @ 125VAC	0.508" x 0.755"	Panel mount	0.250" quick conn.	Black w/ white "O"	Rectangle	3.45	2.89	2.44
617254CM	35-643	16	DPST on-off	16A @ 125VAC	0.483" x 1.021"	Panel mount	0.250" quick conn.	Black w/ white "O"	Rectangle	5.15	4.41	3.79
617297CM	35-648	17	DPDT on-on	10A @ 125VAC	0.887" x 0.756"	Panel mount	0.187" quick conn.	Black	Rectangle	4.55	4.19	3.88
617369CM	35-676	18	DPDT on-off-on	8A @ 125VAC	0.625" x 0.523"	Panel mount	Solder lug	Red	Rectangle	5.29	4.57	3.96

## Lighted Appliance Rocker Switches



Part No.	Product No.	Fig.	Type Q Momentary	Contact Rating	Mounting Hole	Mounting Type	Terminal Type	Rocker Color	Rocker Type	Pricing		
										1	10	100
622310CM	35-3730	19	SPST	16A @ 125VAC	0.55" x 1.125"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	\$3.05	\$2.66	\$2.33
622408CM	35-3790	20	SPST	15A @ 125VAC	0.55" x 1.125"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	3.39	2.98	2.60
617220CM	35-621	21	SPST	16A @ 125VAC	0.87" x 1.07"	Panel mount	0.250" quick conn.	125V neon w/ red lens	Rectangle	5.89	5.12	4.47
617318CM	35-655	22	DPST	20A @ 125VAC	1.00" x 1.125"	Panel mount	0.250" quick conn.	125V neon red	Square	5.65	4.57	3.64
617326CM	35-656	23	SPST	15A @ 125VAC	1.45" x 0.83"	Panel mount	0.250" quick conn.	125V neon amber	Rectangle	5.29	4.57	3.96
617406CM	35-684	24	DPST	10A @ 125VAC	0.453" x 1.189"	Panel mount	Solder	125V neon red	Rectangle	8.29	6.50	5.02
617414CM	35-686	25	DPST	20A @ 125VAC	1.18" x 0.87"	Panel mount	0.250" quick conn.	125V neon w/red indicator	Square	5.95	4.99	4.26
617431CM	35-689	20	SPST	15A @ 125VAC	0.55" x 1.125"	Panel mount	0.250" quick conn.	125V neon red	Rectangle	3.79	3.30	2.89
617481CM	35-696	26	SPST	12A @ 125VAC	0.508" x 0.756"	Panel mount	0.187" quick conn.	125V neon red	Rectangle	2.99	2.60	2.29
617334CM	35-660	27	SPST	10A @ 30VDC	0.55" x 1.125"	Panel mount	0.250" quick conn.	12V incandescent red	Rectangle	4.45	3.69	3.04
617351CM	35-664	28	SPST	15A @ 125VAC	0.453" x 1.10"	Panel mount	0.250" quick conn.	12V incandescent green	Rectangle	4.75	4.18	3.61
617422CM	35-688	28	SPST	15A @ 125VAC	0.453" x 1.10"	Panel mount	0.250" quick conn.	105/120V neon red	Rectangle	3.99	3.23	2.57

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## Rocker Switches

### CR Series Power Rugged

- UL1054 rating: 20A, 125VAC; 16A, 250VAC
- Temp. range: -20°C to +85°C
- Mechanical life: min. 100,000 operations
- Electrical life @ rated load: 6000 cycles min.

### FR Series Double Pole 12A Switching

- UL1054 rating: 12A, 125VAC/250VAC
- Temp. range: -20°C to +125°C (UL); -20°C to +55°C (VDE)
- Mechanical life: min. 50,000 operations
- Electrical life @ rated load: 6000 cycles min.

### GR Series Compact 15A Switching

- UL1054 rating: 15A, 125VAC; 10A, 250VAC
- Temp. range: -20°C to +85°C
- Mechanical life: min. 50,000 operations
- Electrical life @ rated load: 6000 cycles min.

### LR Series Miniature High Current

- UL1054 rating: 10A, 125VAC; 8A, 250VAC
- Temp. range: -20°C to +85°C
- Mechanical life: min. 100,000 operations
- Electrical life @ rated load: 6000 cycles min.

### RR Series Round High Current

- UL1054 rating: 10A, 125VAC; 8A, 250VAC
- Temp. range: -20°C to +85°C
- Mechanical life: min. 100,000 operations
- Electrical life @ rated load: 6000 cycles min.

### PR Series Panel Mount Power

- UL1054 rating: 6A, 125VAC; 3A, 250VAC
- Smallest agency-approved, low profile
- Temp. range: 0°C to 100°C (VDE); -20°C to +65°C (UL)
- Mechanical life: min. 50,000 operations
- Electrical life @ rated load: 6000 cycles min.

### SR Series Miniature

- UL1054 rating: 10A, 125VAC; 6A, 250VAC
- Temp. range: -20°C to +85°C
- Mechanical life: min. 100,000 operations
- Electrical life @ rated load: 6000 cycles min.

### TR Series Thin Power

- UL1054 rating: 16A, 125VAC/250VAC
- 16A switching in 11mm wide package
- Temp. range: -20°C to +85°C
- Mechanical life: min. 50,000 operations
- Electrical life @ rated load: 6000 cycles min.

### WR Series Double Pole Power

- UL1054 rating: 16A, 125VAC/250VAC
- Rugged construction for 2-pole, high-current applications
- Temp. range: -20°C to +85°C
- Mechanical life: min. 50,000 operations
- Electrical life @ rated load: 6000 cycles min.



GR Series



PR Series



FR Series



TR Series



RR Series



WR Series

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## Rocker Switches



C Series



CA Series



CR Series



DA Series



DF Series



DM Series



E Series



7000 Series

### C Series Power

- Contact rating: 15A @ 125VAC; 10A @ 250VDC
- Insulation resistance: 1000MΩ min. • Positive detent
- Dielectric strength: 2500V<sub>RMS</sub> @ sea level • Snap-in mounting

### CA Series Power

- Contact rating: 15A @ 125VAC; 10A @ 250VDC
- Insulation resistance: 1000MΩ min. • Positive detent
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level • Cosmetic slimline detail

### CR Series Round Single Pole Specialty

- Contact rating: 10A @ 125VAC; 6A @ 250VDC • Nice styling
- Dielectric strength: 1500V<sub>RMS</sub> @ sea level • Insulation resistance: 100MΩ min.

### D Series Miniature Snap-in Power

- Contact rating: 4A @ 125VAC; 2A @ 250VAC or 10A @ 125VAC; 5A @ 250VDC
- Insulation resistance: 1000MΩ min. • PC and quick connect terminals
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level • Low cost

### DA Series Miniature Single Pole

- Contact rating: 16A @ 125VAC, 1/3HP; 10A @ 250VAC 1/2HP
- Insulation resistance: 100MΩ min. • Guards to prevent accidental actuation
- Dielectric strength: 1500V<sub>RMS</sub> @ sea level

### DF Series Power

- Power switching up to 16 A
- Contact rating: 16A @ 125/250VAC
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Insulation resistance: 1000MΩ min.
- Sub-panel and panel mounting
- Multi-position/multi-pole function

### DM Series Miniature Power

- Contact rating: 3A @ 125VAC; 2A @ 250VAC or 10A @ 125VAC; 5A @ 250VAC
- Insulation resistance: 1000MΩ min. • Illuminated or non-illuminated
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level • Quick connect terminals

### E Series Sealed Miniature, ET Series Sealed Subminiature and 7000 Series Miniature

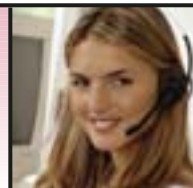
- Sealed terminals prevent contamination during soldering
- Contact rating:
  - E Series:** 0.4VA max. @ 20VAC/DC, 7.5A @ 125VAC/28VDC, 3A @ 250VAC, 5A @ 125VAC/28VDC, 2A @ 250VAC;
  - ET Series:** 0.4VA max. @ 20VAC/DC;
  - 7000 Series:** 0.4VA max. @ 20VAC/DC or 5A @ 120VAC/28VDC; 2A @ 250VDC
- Insulation resistance: 1000MΩ min. • Operating temp.: -30°C to 85°C
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level

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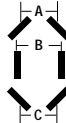
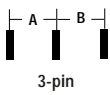
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with suggestions for products you'd like  
to see in future catalogs.



- Panel mount
- Mounting hole diameter: 1/2"
- Full-size round lever for standard and metal
- Full-size flat lever for plastic
- Medium duty
- Keyed plate indicates switch position

Includes: Mounting hardware and on/off plate



2-pin or 4-pin

6-pin

## Standard Toggle Switches

Lower\$\$\$



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76241CM	SWM128	1	2	SPST on-off	1.00 x .56 x .52	.23	—	—	4 @ 125 & 2 @ 250	Solder lugs	Round	\$1.49	\$1.29	\$1.19	\$ .99	\$ .89
76232CM	SWM125	2	2	SPST on-off	1.00 x .53 x .51	—	—	—	6 @ 125 & 3 @ 250	6" lead wire	Round	1.75	1.59	1.45	1.29	1.15
317817CM	R13-25A1-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	1.35	1.06	.94	.84	.77
317833CM	R13-25A2-05	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	1.99	1.75	1.39	1.22	1.13
317809CM	R13-25A1-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	1.39	1.29	1.15	1.02	.85
317825CM	R13-25A2-01	3	2	SPST on-off	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	1.99	1.75	1.38	1.27	1.10
318001CM	R13-28A-01	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	1.99	1.75	1.39	1.25	1.13
318019CM	R13-28A-05	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	1.99	1.45	1.39	1.25	1.13
318027CM	R13-28A-06	4	2	SPST on-off	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.25	1.99	1.55	1.39	1.25
317892CM	R13-25C1-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.39	2.15	1.69	1.52	1.46
317913CM	R13-25C2-05	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.51	1.49
317884CM	R13-25C1-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Plastic	2.85	2.55	2.00	1.79	1.72
317905CM	R13-25C2-01	3	3	SPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	.250" quick connect	Metal	2.45	2.15	1.69	1.51	1.49
318086CM	R13-28C-01	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.39
318094CM	R13-28C-05	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.39
318107CM	R13-28C-06	4	3	SPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.75
317930CM	R13-25D1-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	2.45	2.15	1.69	1.55	1.45
317956CM	R13-25D2-05	3	3	SPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Metal	2.45	2.15	1.69	1.55	1.45
318123CM	R13-28D-01	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	2.45	2.15	1.69	1.52	1.47
318131CM	R13-28D-05	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	2.45	2.15	1.69	1.52	1.47
318140CM	R13-28D-06	4	3	SPDT on-off-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	2.89	2.55	1.99	1.79	1.69
158060CM	JKN32	1	4	DPST on-off	1.00 x .56 x .52	.23	—	.23	4 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.05	.95	.85	.64
76260CM	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	1.75	1.59	1.45	1.29	1.15
158078CM	JKN3CC	1	6	DPDT on-on	1.19 x .76 x .73	.44	.59	.44	10 @ 125 & 6 @ 250	Screw lugs	Round	1.75	1.59	1.29	.99	.75
317850CM	R13-25B1-05	3	6	DPDT on-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25
318043CM	R13-28B-01	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	.250" quick connect	Round	3.75	3.35	2.59	2.35	2.09
318051CM	R13-28B-05	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	Solder	Round	3.75	3.35	2.59	2.35	2.09
318060CM	R13-28B-06	4	6	DPDT on-on	1.33 x .75 x .75	.45	.61	.45	15 @ 125 & 10 @ 250	M3 Screw	Round	4.59	4.15	3.19	2.89	2.75
317972CM	R13-25E1-05	3	6	DPDT on-off-on	1.14 x .59 x .62	.38	.38	—	10 @ 125 & 6 @ 250	Solder	Plastic	3.75	3.35	2.61	2.34	2.25

## Other Manufacturers — Great Deals

76259CM	SWM126	1	6	DPDT on-on	1.12 x .77 x .60	.30	.60	.40	5 @ 125 & 3 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.15	\$1.05
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- Mounting hole diameter: 7/32"
- Pre-tinned leads
- Metal construction

Includes: Mounting hardware



Fig. 1

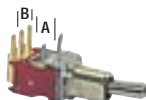


Fig. 2

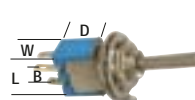


Fig. 3



## Subminiature Toggle Switches

Part No.	Cross Ref. No.	Fig.	Pins	Type	Dimensions L" x W" x D"	Lead Spacing		Contact Rating	Lead Type	Lever Type	Pricing				
						A"	B"				1	10	100	500	1000
106067CM	SWP124	1	3	SPDT on-on	.25 x .33 x .40	.20	.10	30mA @ 5VDC	PC right angle	Round	\$1.99	\$1.83	\$1.59	\$1.44	\$1.32
72160CM	SW1501	2	2	SPST on-off	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.09	1.07	1.04	.99	.84
75969CM	SWM136	2	3	SPDT on-on	.33 x .21 x .33	.10	—	3A @ 125VAC	Solder lugs	Round	1.55	1.44	1.21	.86	.63
72557CM	SW1502	2	3	SPDT on-off-on	.33 x .21 x .33	.10	—	1.5A @ 250VAC	Solder lugs	Round	1.35	1.25	1.05	.85	.60
138907CM	SW1503	3	6	DPDT on-off-on	.36 x .37 x .33	.17	.10	3A @ 120VAC	Solder lugs	Round	1.29	1.05	.85	.65	.488
75977CM	SWM137	3	6	DPDT on-on	.33 x .37 x .33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	1.29	1.05	.85	.65	.55

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restrictive franchise agreements that hold minimum prices high. Instead, Jameco cuts out the costly markups and layers of distribution and sells its products direct to you, so you can put the savings back in your wallet!



**Practical Practices**  
Money Saving Tips for the Engineer



**JAMECO ValuePro**

• Mounting hole diameter: 1/4"

Includes: Mounting hardware



## Miniature Toggle Switches

**Quantity SAVE**



Fig. 1



Fig. 2

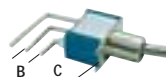


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

Part No.	Cross Ref. No.	Fig.	Pins	Type ( ) Momentary	Dimensions L" x W" x D"	Lead Spacing			Contact Rating (A @ VAC)	Lead Type	Lever Type	Pricing				
						A"	B"	C"				1	10	100	500	1000
76523CM	JMT113	1	2	SPST on-off	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	\$1.15	\$1.03	\$ .93	\$ .75	\$ .65
21936CM	JMT123	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.15	1.03	.93	.75	.65
21910CM	JMT121	1	3	SPDT on-off-on	.52 x .32 x .38	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.35	1.25	1.09	.95	.71
22832CM	LFH123	2	3	SPDT on-on	.52 x .28 x .36	—	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.15	1.05	.95	.85	.75
75854CM	SWM132	1	3	SPDT on-on	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.94	.69
75889CM	SWM129	1	3	SPDT (on)-off-(on)	.52 x .32 x .38	—	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.99	1.85	1.55	1.09	.95
26331CM	MPC123	1	3	SPDT on-on	.52 x .32 x .37	—	.185	—	6 @ 125 & 3 @ 250	PC straight	Round	1.39	1.25	1.12	.95	.78
26315CM	MPC121	1	3	SPDT on-off-on	.52 x .32 x .37	—	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.15	1.05	.95	.72
71597CM	SWM148	3	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	5 @ 125 & 2 @ 250	PC right angle	Round	1.19	1.09	.91	.73	.55
75871CM	SWM145	4	3	SPDT on-on	.52 x .32 x .38	—	.185	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.49	1.35	1.09	.86	.79
22841CM	LFH221	6	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	3 @ 125 & 1 @ 250	Solder lugs	Flat	1.45	1.35	1.19	1.09	.95
21979CM	JMT223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	1.49	1.29	1.15	.99	.59
22859CM	LFH223	6	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Flat	1.29	1.19	1.05	.95	.71
75900CM	SWM133	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.85
21952CM	JMT221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.29	1.16	1.04	.89	.75
75951CM	SWM130	5	6	DPDT (on)-off-(on)	.52 x .52 x .38	.20	.185	—	6 @ 125 & 3 @ 250	Solder lugs	Round	1.49	1.35	1.25	.99	.89
26366CM	MPC223	5	6	DPDT on-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.49	1.35	1.25	.99	.89
26358CM	MPC221	5	6	DPDT on-off-on	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	PC straight	Round	1.29	1.16	1.04	.89	.75

### Other Manufacturers

105814CM	SWA208	5	6	DPDT on-(on)	.52 x .52 x .38	.20	.185	—	5 @ 125 & 2 @ 250	Solder lugs	Round	\$1.59	\$1.45	\$1.29	\$1.03	\$ .77
202964CM	WI24	7	6	DPDT on-off-(on)	.50 x .50 x .46	.15	.15	.20	6 @ 125 & 3 @ 250	PC right angle	Round	1.59	.79	.68	.54	.41



## Toggle Switches

**NEW**

### Heavy-Duty Toggle Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Lead Type	Mounting Hole	Lever Type	1	10	100
620787CM	35-078	1	SPST on-off	15 @ 125	Solder	0.500"	Bat (metal)	\$3.19	\$2.99	\$2.80
620963CM	35-130	2	SPDT on-on	20 @ 125	Screw	0.500"	Bat (metal)	3.25	3.04	2.84
621018CM	35-139	3	3PST on-off	17 @ 125	Screw	0.500"	Bat (metal)	10.65	9.97	9.31
621026CM	35-140	3	3PDT on-off-on	17 @ 125	Screw	0.500"	Bat (metal)	12.55	11.76	10.99
621034CM	35-141	3	3PDT on-on	17 @ 125	Screw	0.500"	Bat (metal)	12.55	11.76	10.99
621122CM	35-149	1	DPDT on-off-on	20 @ 125	Solder	0.500"	Bat (metal)	5.75	5.23	4.73
621131CM	35-150	2	DPDT (on)-off-(on)	20 @ 125	Screw	0.500"	Bat (metal)	6.25	5.85	5.47
621181CM	35-155	2	SPDT (on)-off-(on)	20 @ 125	Screw	0.500"	Bat (metal)	4.29	4.03	3.78
621261CM	35-185	4	DPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (metal)	5.15	4.80	4.47
621499CM	35-3005	4	SPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	2.65	2.47	2.30
621536CM	35-3015	4	SPDT on-off-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	3.29	3.08	2.88
621544CM	35-3020	4	DPDT on-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.45	4.16	3.89
621552CM	35-3025	4	DPDT on-off-on	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.45	4.17	3.90
621587CM	35-3045	4	DPST on-off	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.75	4.45	4.16
621608CM	35-3055	4	SPST off-(on)	20 @ 125	0.250" quick conn.	0.500"	Bat (brass)	4.55	4.25	3.97
621616CM	35-3060	2	DPST on-off	20 @ 125	Screw	0.500"	Bat (brass)	4.45	4.16	3.89
621641CM	35-3075	5	DPST on-off	20 @ 125	Screw	0.500"	Bat (brass)	9.59	8.90	8.28

### Medium-Duty Toggle Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Lead Type	Mounting Hole	Lever Type	1	10	100
620816CM	35-090	6	SPST on-off	16 @ 125	0.250" quick conn.	0.500"	Paddle (red)	\$5.29	\$4.96	\$4.64
620832CM	35-094	6	SPST on-off	16 @ 125	0.250" quick conn.	0.500"	Paddle (green)	5.29	4.96	4.64
620921CM	35-118	7	DPST on-off	6 @ 125	0.250" quick conn.	0.500"	Bat (metal)	4.45	4.17	3.90
620971CM	35-132	8	DPDT on-on	3 @ 125	Solder	0.500"	Bat (metal)	1.95	1.81	1.68
621190CM	35-160	9	SPST on-off	6 @ 125	Solder	0.500"	Bat (metal)	3.55	3.31	3.08
621211CM	35-170	10	SPST on-off	6 @ 125	Screw	0.500"	Ball (metal)	7.85	7.36	6.88
621229CM	35-178	11	SPST on-off	20 @ 125	0.250" quick conn.	0.500"	Paddle (plastic)	3.35	3.21	3.08
617721CM	35-854	12	SPST on-off	6 @ 125	Lead wires	0.500"	Bat (plastic)	3.49	3.22	2.97
620841CM	35-1076	13	SPST off-(on)	6 @ 125	Screw	0.500"	Bat (metal)	6.25	5.85	5.47
621579CM	35-3035	14	SPST on-off	6 @ 125	Screw	0.500"	Bat (brass)	2.95	2.75	2.56
621595CM	35-3050	15	SPST on-off	10 @ 125	Lead wires	0.500"	Paddle (brass)	3.25	3.12	3.01
621683CM	35-3127	16	DPDT (on)-off-(on)	15 @ 125	0.250" quick conn.	0.500"	Bat (metal)	10.09	9.39	8.76
621763CM	35-3160	17	SPST on-off	20 @ 125	Screw	0.500"	Paddle (nylon)	3.45	3.21	2.99



Fig. 1

Fig. 2

Fig. 3



Fig. 4

Fig. 5

Fig. 6



Fig. 7

Fig. 8

Fig. 9



Fig. 10

Fig. 11

Fig. 12



Fig. 13

Fig. 14



Fig. 15



Fig. 16

Fig. 17

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## Toggle Switches (Continued)

**NEW**

### Miniature Toggle Switches

Part No.	Product No.	Fig.	Type ( ) Momentary	Contact Rating (A @ VAC)	Lead Type	Mounting Hole	Lever Type	1	10	100
620517CM	35-003♣	18	SPDT on-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	\$2.75	\$2.57	\$2.40
620525CM	35-004♣	18	SPDT on-on	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	2.35	2.20	2.06
620533CM	35-005♣	18	SPDT on-off-on	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	2.75	2.57	2.40
620550CM	35-007♣	18	SPDT on-off-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	2.75	2.57	2.40
620568CM	35-008♣	18	SPDT (on)-off-(on)	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	2.65	2.47	2.30
620576CM	35-009♣	19	DPDT on-on-on	5 @ 125	Solder	0.250"	Bat (brass chrome plate)	4.25	3.98	3.72



Fig. 18



Fig. 19

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete GC Electronics Toggle Switch Offering at [www.Jameco.com/Prod/GCToggle](http://www.Jameco.com/Prod/GCToggle)

### Alcoswitch

### Toggle Switches

#### Gemini A Series Miniature

- Contact rating: gold: 0.4VA @ 20VAC/DC; silver: 2A @ 250VAC, 5A @ 125VAC
- Insulation resistance: 1000MΩ @ 500VDC
- Dielectric strength: 1000 volts RMS @ sea level
- Operating temp.: -20°C to 85°C

#### AE Series Washable

- Contact rating: gold: 0.4VA @ 20VAC/DC; silver: 2A @ 250VAC, 5A @ 125VAC
- Insulation resistance: 1000 MΩ @ 500VDC
- Dielectric strength: 1000 volts RMS @ sea level
- Operating temp.: -20°C to +85°C

#### MT Series

- Contact rating: gold: 6A @ 125VAC, 3A @ 250VAC
- Insulation resistance: 1000 MΩ @ 500VDC min. for 1 minute
- Dielectric strength: 1500VAC
- Operating temp.: -20°C to +80°C

#### TT Series

- Contact rating: 0.4VA @ 20VDC or peak AC or 3A @ 125VAC
- Insulation resistance: 1000 MΩ min. @ 500VDC min.
- Dielectric strength: 1000 volts RMS @ sea level
- Operating temp.: -30°C to +85°C

#### 7320/7360/7402 Series Power

- Contact rating: 7320 series: 16A @ 125VAC, 8A @ 250VAC; 7360 series: 20A @ 125VAC, 10A @ 250VAC; 7402 series: 20A @ 125/250VAC
- Operating temp.: 0°C to 55°C • Screw terminals

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A Series



MT Series



7320 Series

See Our Alcoswitch Toggle Switch Offering at [www.Jameco.com/Prod/AlcoToggle](http://www.Jameco.com/Prod/AlcoToggle)



### Toggle Switches

#### E Series Sealed Miniature

- Contact rating: 7.5A @ 125VAC or 28VDC; 3A @ 250VAC
- Insulation resistance: 10,000MΩ min.
- Sealed against solder and cleaning process contaminants
- UL 94V-0 Nylon case and bushing • Op. temp.: -30°C to +85°C

#### GT Series Sealed Ultraminiature

- Contact rating: 0.4VA max. @ 20VAC or DC max.
- Insulation resistance: 10,000MΩ min.
- Operating temp.: -30°C to +85°C
- Sealed against solder and cleaning process contaminants
- Ultraminiature size, smallest footprint available

#### T Series Subminiature

- Contact rating: 0.4 VA max. @ 20VAC/VDC max; 3A @ 120VAC or 28VDC • Insulation resistance: 10,000MΩmin.
- Operating temp.: -30°C to +85°C • Compact size, small footprint

#### 7000 Series Miniature

- Contact rating: 0.4VA max. @ 20VAC/VDC max; 5A @ 120VAC or 28VDC; 2A @ 250VAC
- Insulation resistance: 10,000MΩmin.
- Operating temp.: -30°C to +85°C
- Epoxy sealed terminals prevent contamination

#### 9000 Series Power

- Contact rating: 6A @ 120VAC/28VDC; 3A @ 250VAC or 10A @ 28VDC; 5A @ 250VAC • Insulation resistance: 10,000MΩ min
- Operating temp.: -30°C to +85°C

#### MIL-S-83731 Series Military/Aerospace/Hi-Rel

- Contact rating: 0.4VA max. @ 28VAC/DC max. • Operating temp.: -25°C to +71°C

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



E Series



GT Series



T Series



7000 Series

See Our Complete C&K Toggle Switch Offering at [www.Jameco.com/Prod/CKToggle](http://www.Jameco.com/Prod/CKToggle)



## Specialty Switches

**NEW**

### Pull Chain Switches • Current rating: 6A @ 20VAC/VDC; 3A @ 120VAC

Part No.	Product No.	Fig.	Contact Form	Actuator	Terminal Type	1	10	50
617764CM	35-864♣	1	SPST on-off	3 1/2" pull chain	6" wires	\$2.75	\$2.52	\$2.31
617772CM	35-865♣	2	R3P off- (1)on - (2) on	3 3/4" pull chain	push-in	4.59	4.24	3.89
617781CM	35-867♣	2	SP3T off-on-on-on	3 3/4" pull chain	push-in	5.05	4.45	3.96

### Magnetic Proximity • Current rating: 0.5A @ 20VAC/VDC; 0.08A @ 120VAC

Part No.	Product No.	Fig.	Contact Form	Actuator	Terminal Type	1	10	50
617502CM	35-750♣	3	SPST NO w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	\$3.35	\$3.16	\$2.98
617529CM	35-752	4	SPDT NO/NC	Use magnet	Leaded SD	4.15	3.97	3.78
617545CM	35-756	3	SPDT NO/NC w/o magnet	Need magnet	Screw term., 1/4" gap, surface mount	7.05	6.56	6.10

### Knife Switches • Current rating: 0.5A @ 6VDC • Mounting hole: 3.4mm

Part No.	Product No.	Fig.	Contact Form	Actuator	Terminal Type	1	10	50
617490CM	35-730	5	DPDT on-off-on	Plastic handle	Screw terminal	\$4.09	\$3.99	\$3.91

### Proximity Magnets • Current rating: 0.3A @ 30VAC/VDC

Part No.	Product No.	Fig.	Contact Form	Terminal Type	1	10	100
617511CM	35-751♣	—	SPST NO	Screw terminal, 1/4" gap, surface mount	\$9.69	\$8.87	\$8.11
617537CM	35-754♣	6	SPST NO	Side wire leads, 1" gap, subminiature surface mount	8.39	7.67	7.01
617553CM	35-761♣	—	SPST NO	Wire leads, 1/4" gap, recessed magnet, panel mount 3/4"	9.25	8.48	7.78
617561CM	35-762♣	—	SPST NO	Wire leads, 1/4" gap, recessed magnet, panel mount 3/8"	6.49	5.91	5.40

To Find Mercury Tilt Switches, visit our website at [www.Jameco.com/Prod/GCSpecialty](http://www.Jameco.com/Prod/GCSpecialty)

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



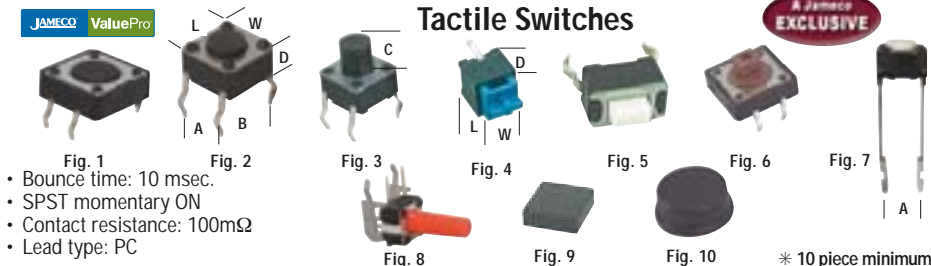
Fig. 6



JAMECO ValuePro

## Tactile Switches

A Jameco EXCLUSIVE



- Bounce time: 10 msec.
- SPST momentary ON
- Contact resistance: 100mΩ
- Lead type: PC

Part No.	Cross Ref. No.	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
122972CM	DTS1212	1	4	.47	.47	.18	—	.20	.50	20 @ 15	Black	\$.26	\$.23	\$.19	\$.17
119010CM	KTI1B1CM	2	8	.24	.24	.15	.30	.17	.25	20 @ 15	Black	.27	.24	.176	.132
149948CM	KT11P4CM	3	4	.24	.24	.15	.13	.17	.25	20 @ 15	Black	.26	.23	.21	.19
115087CM	KIE22	4	2	.24	.24	.22	—	.25	.20	20 @ 15	Blue	.39	.35	.29	.218
199727CM	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	.30	.221	.196	.187
200362CM	EVQPB04K	8	5	.24	.24	.14	.30	.17	.26	20 @ 15	Black	.29	.26	.23	.17
137189CM	PBS103	1	4	.47	.47	.17	—	.20	.50	50 @ 12	Black	.39	.35	.32	.19
153251CM	SDT620K	2	4	.24	.24	.15	.06	.17	.25	50 @ 12	Black	.29	.25	.20	.18
155248CM	KRS-3550-BK	5	2	.24	.14	.15	—	.27	.50	50 @ 12	Black	.22	.20	.16	.12
155379CM	KRS-1273B	6	4	.47	.47	.14	.14	.17	.53	50 @ 12	Brown	.39	.35	.31	.26

### Tactile Switch Caps\*

Part No.	Cross Ref. No.	Fig.	Description	Size (in.)	Material	For Use With	10	100	250
155389CM	KRS-CAP-A	9	Square	.47" L x .47" W x .16" H	Plastic	P/N 155379CM	\$.15	\$.11	\$.08
155408CM	KRS-CAP-B	10	Round	.50" Dia. x .25" H	Plastic	P/N 155379CM	.15	.13	.11

### Other Manufacturers — Great Deals

Part No.	Cross Ref. No.*	Fig.	Pins	Dimensions (in.)				Lead Spacing		Contact Rating (mA @ VDC)	Button Color	Pricing			
				L	W	D	C	A*	B*			1	10	100	250
199726CM	EVQ11A04M	7	2	.24	.24	.14	.30	.20	—	20 @ 15	White	\$.27	\$.199	\$.176	\$.13
206341CM	KPT1107A	5	2	.24	.14	.15	—	—	.25	50 @ 12	Beige	.23	.21	.19	.17
454491CM	DST21N	1	4	.47	.47	.14	.03	.19	.47	50 @ 12	Brown	.23	.21	.19	.17
454504CM	DSTM-61R	2	4	.24	.24	.15	.03	.19	.32	50 @ 12	Red	.23	.21	.19	.17
454512CM	DSTM-61K	2	4	.24	.24	.15	.03	.19	.32	50 @ 12	Black	.23	.21	.19	.17
202956CM	KSM06330	8	2	.24	.24	.15	.38	.11	.18	50 @ 24	Red	.26	.15	.13	.12

\* Manufacturer may vary † 200362CM: with ground pin ‡ See switch caps above § 1454504CM/454512CM: SMD



## Tactile Switches

NEW

- Contact rating: 50mA @ 12VDC

Part No.	Product No.	Contact Form	Terminal	Body Size	Actuator	1	25	50
621077CM	35-1451	SPST (on)-off	PC term.	12mm	Low profile gray	\$.99	\$.92	\$.86
621085CM	35-1452	SPST (on)-off	PC term.	6mm	Low profile black	.89	.82	.76

To Find Additional GC Tactile Switches, visit [www.Jameco.com/Prod/GCTactile](http://www.Jameco.com/Prod/GCTactile)

▲ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Switch Assortment Kit

Includes:

- 20-drawer component cabinet (319599CM), 20 clear plastic drawers (319601CM), 20 clear dividers (319610CM), pg 314 and 30 adhesive labels for drawers to identify parts in kit
- 10 ea. miniature toggle switches (76523CM, 21936CM, 21910CM, 26331CM, 26315CM, 21979CM, 21952CM, 26366CM, 26358CM), pg 189
- 10 ea. slide switches (109170CM), pg 183
- 10 ea. pushbutton switches (26622CM, 26649CM), pg 178
- 10 ea. DIP switches (38818CM, 38842CM), pg 194
- 10 ea. tactile switches (153251CM), pg 191

SAVE \$51



Part No.	Description	Wt. (lbs.)	1	10
85059CM	150 pcs. switch kit	5.0	..... \$98.95	\$88.95

## Rotary Switches

### A Series 1-4 Pole

- Multi-pole and multi-position
- Positive detent
- Contact rating: -2.5A @ 125VAC; 350mA @ 125VDC
- Insulation resistance: 1000MΩ min.
- Dielectric strength: 1000VRMS @ sea level

### M Series 1/2 Inch

- Stainless steel actuator
- Multi-pole and multi-position
- Contact rating: 250mA @ 125VAC/28VDC
- Insulation resistance: 10000MΩ min.
- Operating temp.: -30°C to +85°C
- Dielectric strength: 600VRMS @ sea level

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete C&K Rotary Switch Offering at [www.Jameco.com/Prod/CKRotary](http://www.Jameco.com/Prod/CKRotary)



OMRON

## B3F Series Miniature Tactile Key Switches

Miniature, low profile and easy mounting. Applications: audio, office & communications equipment, measuring instruments, TVs, VCRs, etc.

- Extended mechanical/electrical service life
- Flux-tight base structure allows automatic soldering of the key switch onto a PC board
- Lead spacing: A = 0.18"; B = 0.26"
- Operating force: 188787CM general purpose 100g P/N 162886CM and high-force 260g
- Dimensions: 162886CM 4.3 mm x 6.5 mm 188787CM 7.3 mm x 6.5 mm

Blue Part No. = Limited Quantity Available

Part No.	Type	1	25	50	100
162886CM	B3F-1000	.....	\$.45	\$.40	\$.36
188787CM	B3F-1050	.....	.35	.29	.21

## Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST

### 171871CM:

- 500mA @ 100VDC
- Size: 0.53" L x 0.1" Dia.

### 164081CM: 1A @ 250VAC; 1A @ 50VDC

- Size: 1.43" L x 0.2" Dia.

Part No.	Cross Ref. No.	1	10	100	1000
171871CM	MKA14103	.....	\$.79	\$.64	\$.46
164081CM	MRS1	.....	.79	.63	.43

## Alcoswitch Tactile Switches

### FSM Series

- Operating temp.: -40°C to +85°C
- Initial contact resistance: 100mΩ max.
- Insulation resistance: 100MΩ min. @ 500VDC
- Dielectric strength: 500VAC for 1 minute

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Alcoswitch Tactile Switch Offering at [www.Jameco.com/Prod/AlcoTactile](http://www.Jameco.com/Prod/AlcoTactile)

## Navigation Switches

### TPA Series Tact for SMT

- One touch, 5 way switching
- Distinctive tactile feel for scanning and select functions
- Contact resistance: ≤200mΩ initial
- Insulation resistance: 1000MΩ @ 100VDC
- Dielectric strength: 250VDC

### TPC Series Tri-Direction Scan

- One touch, 3 way switching
- Superior tactile feel
- Rotation of actuator closes two individual contacts
- Contact resistance: ≤300mA
- Insulation resistance: 1000MΩ @ 100VDC
- Dielectric strength: 250VDC
- Operating temp.: -40°C to +125°C

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See Our Complete C&K Navigation Switch Offering at [www.Jameco.com/Prod/CKNavigation](http://www.Jameco.com/Prod/CKNavigation)







## Tactile Switches



ED Series



PTS525 Series



KMR Series



KSJ Series



KT Series

### ED & EDM Series Dome

- Gold (Au) or silver (Ag) contacts
- Contact resistance:  $\leq 10\text{m}\Omega$  or  $\leq 15\text{m}\Omega$
- Switching power: 3W or 6W
- Proven application in avionics
- Switching voltage: 100VDC

### KMR Series Microminiature for SMT

- Compatible with lead free soldering
- Extra large actuator
- Insulation resistance:  $\geq 1\text{G}\Omega$
- EMC protection
- Contact resistance:  $\leq 100\text{m}\Omega$

### KMS Series Microminiature Side Actuated for SMT

- Compatible with lead free soldering
- Contact resistance:  $\leq 100\text{m}\Omega$
- Dielectric strength: 250VDC
- Grounded cover for EMC protection
- Insulation resistance: 1,000M $\Omega$

### KSA & KSL Series Sealed

- Cambered terminals to ensure self retention
- Dielectric strength: 300V<sub>RMS</sub>
- Contact resistance:  $< 50\text{m}\Omega$
- Insulation resistance:  $> 100,000\text{M}\Omega$

### KSB & KSF Series Low Profile

- Contact resistance: KSB: 50m $\Omega$ , KSF: 100m $\Omega$
- Dielectric strength: 300V<sub>RMS</sub>
- Insulation resistance:  $> 100,000\text{M}\Omega$

### KSC Series Sealed for SMT

- Contact resistance:  $< 100\text{m}\Omega$
- Insulation resistance:  $> 10,000\text{M}\Omega$
- Dielectric strength: 250V

### KSJ Series Spherical Actuator

- Contact resistance:  $\leq 50\text{m}\Omega$
- Dielectric strength:  $\geq 300\text{V}_{\text{RMS}}$
- Insulation resistance:  $> 100,000\text{M}\Omega$

### KSR Series Subminiature for SMT

- Saves PCB space
- Contact resistance:  $\leq 100\text{m}\Omega$
- N.O. or N.C. contacts
- Insulation resistance: 1,000M $\Omega$

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See Our Complete C&K Tactile Switch Offering at [www.Jameco.com/Prod/CKTactile](http://www.Jameco.com/Prod/CKTactile)



## Rotary Switches



101573CM

- Contact rating: 30VDC @ 0.3A
- Insulation resistance: 10M $\Omega$  min.
- Contact resistance: 30m $\Omega$
- Lug size: 0.07"
- Mounting hole diameter: 3/8"
- Layers: 1
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565CM – plastic casing)
- Make before break
- Solder lugs
- Panel mount
- Compatible with Jameco rotary knobs P/N 102787CM and 104176CM, pg 208

Includes: Washer and nut

Part No.	Cross Ref. No.	Poles	Position	Shaft Size (L" x Dia.)	1	10	100
101531CM	RS0261	1	12	0.46 x 0.25	\$1.39	\$1.25	\$1.12
101573CM	RS022	2	6	0.46 x 0.25	1.35	1.15	0.86
101565CM	RS023	3	4	1.16 x 0.25	1.95	1.59	1.25
101557CM	RS024	4	3	0.46 x 0.25	1.09	.93	.69

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Let us know how we can better serve your electronics needs.  
Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).



## Rotary Switches

NEW

### Solder Eyelet Style

- Current: 0.3A @ 125VAC
- Actuator: 1/4" metal shaft
- Mounting hole dia.: 0.375"

622336CM

622387CM

Part No.	Product No.	Poles	Position	Mounting Style	1	10	100
622336CM	35-375	2	6	Shorting	\$3.85	\$3.55	\$3.28
622352CM	35-376	1	12	Shorting	2.89	2.66	2.48
622379CM	35-377	2	5	Non-shorting	3.85	3.55	3.28
622387CM	35-378	3	3	Non-shorting	3.85	3.55	3.28
622395CM	35-379	3	4	Shorting	2.89	2.66	2.48

### 6" Lead Wire Style

- Mounting: threaded bushing
- Contact form: SPST on-off

Part No.	Product No.	Fig.	Current (A@125/250VAC)	Actuator	Mounting Hole (Dia.)	1	10	100
617730CM	35-855	1	6/3	Brass knob	0.375"	\$3.05	\$2.49	\$2.02
617748CM	35-856	2	6/2	Black plastic	0.375"	2.95	2.47	2.01

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Alcoswitch

### MRC Series

- Contact rating: 500mA @ 125VAC or 28VDC resistive
- Insulation resistance: 100M $\Omega$  min.
- Dielectric strength: 1000V<sub>RMS</sub> @ sea level
- Operating temp.: -20°C to +80°C

### MRJ Series

- Contact rating: 0.4VA max. @ 20VDC or peak AC
- Insulation resistance: 10,000M $\Omega$  min.
- Dielectric strength: 1000 V<sub>RMS</sub> @ sea level
- Op. temp.: -20°C to +70°C



MRC Series

## Rotary Switches

### 6000 Series

- Current/voltage rating: Signal application only
- Insulation resistance: 1000M $\Omega$
- Dielectric breakdown voltage: 500VDC min.
- Compact design, small diameter, low profile switches are ideal for pc board mounting
- Op. temp.: -18°C to +88°C



6000 Series

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See Our Alcoswitch Rotary Switch Offering at [www.Jameco.com/Prod/AlcoRotary](http://www.Jameco.com/Prod/AlcoRotary)

## CD Series 8mm DIP Coded Rotary Switches

- Contact rating: 0.4W max. @ 20VAC or VDC max.
- Insulation resistance: 100MΩ min. @ 250VAC min.
- Cover and base, knob: glass filled nylon, (UL94V-0)
- Movable contacts and stationary contacts: copper alloy with gold plate over nickel plate
- Terminals: copper alloy with tin-lead alloy over nickel plate
- Contact resistance: 50mΩ max. initial
- Dielectric strength: 250V<sub>RMS</sub> min.
- Actuator: LCP (UL94V-0), internal o-ring seal standard

**NEW**



581394CM



582426CM

Part No.	Product No.	Function	Actuator	Termination	Mech/Electrical Life	1	10	100	1000
581415CM	CD10RK1CK	BCD, 10-position	Knob	PC thru-hole	20,000 actuations	\$4.49	\$4.31	\$3.91	\$3.56
581440CM	CD10RL1AK	BCD, 10-position	Extended, screwdriver slot	Right angle, PC thru-hole	20,000 actuations	4.89	4.75	4.15	3.65
581491CM	CD10RL1CK	BCD, 10-position	Extended, screwdriver slot	PC thru-hole	20,000 actuations	3.89	3.70	3.21	3.06
581474CM	CD10RMOSK	BCD, 10-position	Flush, screwdriver slot	Surface mount	20,000 actuations	3.79	3.63	3.14	2.99
581394CM	CD16CMOSK	Hexadecimal compliment, 16-pos.	Flush, screwdriver slot	Surface mount	20,000 actuations	4.65	4.50	3.90	3.72
581335CM	CD16RK1AK	Hexadecimal, 16-pos.	Knob	Right angle, PC thru-hole	20,000 actuations	5.35	5.27	4.46	4.35
581301CM	CD16RK1CK	Hexadecimal, 16-pos.	Knob	PC thru-hole	20,000 actuations	4.79	4.67	4.39	3.89
582418CM	CD16RM0AK	Hexadecimal, 16-pos.	Flush, screwdriver slot	Right angle, PC thru-hole	20,000 actuations	4.29	4.19	3.61	3.45
582434CM	CD16RM0CK	Hexadecimal, 16-pos.	Flush, screwdriver slot	PC thru-hole	20,000 actuations	4.55	4.19	3.69	3.15
582426CM	CD16RMOSK	Hexadecimal, 16-pos.	Flush, screwdriver slot	Surface mount	20,000 actuations	4.25	4.00	3.48	3.30

## CRD Series 10mm DIP Coded Rotary Switches

- Contact rating: 0.4W, 20VDC max.
- Electrical life: 20,000 steps min. @ 5VDC, 10mA
- Mechanical life: 30,000 steps min.
- Contact resistance: 100mΩ max. initial @ 2VDC, 10mA
- Insulation resistance: 1000MΩ min. @ 100VDC
- Cover: (PTH) PBT red; (SMT) PPA red (UL94V-0)
- Actuator: 4/6 nylon PA-6T (UL94V-0)
- Terminal: brass with tin-lead plate
- Dielectric strength: 300VAC for 1 minute
- Housing: (PTH) PBT green, (SMT) PPA red (UL94V-0)
- Contact: beryllium copper with gold plating
- Actuator: flush, screwdriver slot

**NEW**



Part No.	Product No.	Function	Termination	1	10	100	1000
581431CM	CRD10RM0AK	BCD, 10-pos.	Right angle, PC thru-hole	\$4.95	\$4.54	\$3.89	\$2.74
581423CM	CRD10RMOSK	BCD, 10-pos.	Surface mount	4.75	4.32	3.71	2.61
581360CM	CRD16CMOSK	Hexadecimal comp., 16-pos.	Surface mount	5.19	4.76	4.08	2.87
581343CM	CRD16RM0AK	Hexadecimal, 16-pos.	Right angle, PC thru-hole	5.49	5.01	4.29	3.01
581351CM	CRD16RM0CK	Hexadecimal, 16-pos.	PC thru-hole	4.65	4.22	3.62	2.54

See Our C&K RTE Series Switch Offering at [www.Jameco.com/Prod/CKDIP](http://www.Jameco.com/Prod/CKDIP)

## Rotary DIP Switches

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Life: 10,000 cycles min.
- Max. switching load rating: 25mA @ 24VDC
- Material: 94V-0 grade, UL approved fire retardant plastic
- Terminals: PC pin leads
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"



139635CM



139651CM

Part No.	Cross Ref. No.	Position	Adjust	Code Type	W" x D" x H"	1	10	50	100
139635CM	ERD110RS(DRD10)	10	Top	BCD	.39 x .39 x .20	\$2.59	\$2.33	\$2.07	\$1.86
139651CM	ERD116RS	16	Top	Hex	.39 x .20 x .39	2.75	2.49	2.22	1.99

Blue Part No. = Limited Quantity Available

## 94H Series Rotary DIP Switches

- Carry current: 100mA @ 50VDC
- Dielectric strength: 250V<sub>RMS</sub>

**NEW**

473342CM



Part No.	Cross Ref. No.	Position	Code Type	Description	1	10	100	1000
473271CM	94HAB08	8	Octal	Flush actuator, PC mount	\$2.89	\$2.73	\$1.73	\$1.64
473297CM	94HA08BW	8	Octal	Flush actuator, surface mount	2.89	2.73	1.86	1.77
473318CM	94HAB10	10	BCD	Flush actuator, PC mount	2.89	2.73	1.73	1.64
473342CM	94HAB16	16	HEX	Flush actuator, PC mount	3.25	3.08	2.61	2.48
473465CM	94HBB16	16	HEX	0.270" actuator, PC mount	2.95	2.73	1.89	1.80
473473CM	94HBB16RA	16	HEX	0.270" actuator, right angle	6.49	6.17	5.84	5.55

## DIP Switches

- Insulation resistance: 1000MΩ @ 100VDC min.
- Operating temp.: -40°C to +85°C
- 76 & 78 Series SPDT Through Hole
- Carrying current rating: 4A or 5A
- Spring and ball contact
- Raised and recessed rocker and toggle actuated styles

### 90HB Series SPST, Low Profile SMT

- Carrying current rating: 3A
  - Reliable spring and ball contact
  - Dielectric strength: 500V<sub>RMS</sub>
- These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Grayhill DIP Switch Offering at [www.Jameco.com/Prod/GrayhillDIP](http://www.Jameco.com/Prod/GrayhillDIP)

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## Rotary DIP Switches

- Fully sealed construction
- Rotor and switch body: plastic (UL94V-0)
- Contact and terminal material: copper alloy plated
- Make and break current rating: 30mA @ 30VDC for 10,000 cycles

215992CM:

- Code type: HEX
- 0.1" x 0.3" pin spacing (standard through hole)
- Size: 0.39"W x 0.39"D x 0.20"H
- Top adjustment

216004CM:

- Code type: BCD
- 0.1" pin spacing (right angle through hole)
- Size: 0.43"W x 0.28"D x 0.40"H
- Side adjustment

645669CM:

- Code type: octal
- 8-position • 0.270" actuator type

Part No.	Product No.	1	10	100	1000
215992CM	HAB16	\$1.95	\$1.75	\$1.59	\$1.45
216004CM	HAB10R	1.75	1.59	1.45	1.29
645669CM	HBB08	2.25	2.05	1.89	1.69



215992CM



216004CM



645669CM

## Alcoswitch Vertical SIP Switches

### SSV Series

- Contact rating: 0.4VA @ 20VDC max.
- Operating temp.: -30°C to +85°C
- Insulation resistance: 100MΩ min. @ 100VDC
- End-to-end stackable in .100" center
- High pressure wiping contacts allow aqueous or solvent cleaning
- Dielectric strength: 500VAC

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Alcoswitch SIP Switch Offering at [www.Jameco.com/Prod/AlcoSIP](http://www.Jameco.com/Prod/AlcoSIP)

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

# DIP Switches

## Grayhill 90B Series Thru-Hole DIP Switches

### Machine Insertable MIDIP

- Tested for TO-116 equipment
- Carry current: 3A
- Dielectric strength: 500V<sub>RMS</sub>
- High-pressure reliable contacts

**NEW**



Part No.	Product No.	Position	Length (in.)	1	10	100	1000
473001CM	90B04S	4	0.470	\$1.49	\$1.42	\$.82	\$.78
473027CM	90B05S	5	0.570	1.75	1.64	.81	.77
473035CM	90B06S	6	0.670	1.75	1.68	.83	.79
473051CM	90B07S	7	0.770	1.85	1.71	.84	.80
473060CM	90B08S	8	0.870	1.65	1.60	1.53	1.45
473086CM	90B09S	9	0.970	1.89	1.79	.91	.86
473094CM	90B10S	10	1.070	1.99	1.89	.94	.89

## Grayhill 78 Series Thru-Hole DIP Switches

- Spring ball contact
- Carrying current: 4A
- Dielectric strength: 500V<sub>RMS</sub>
- SPST, raised slides, sealed

**NEW**



Part No.	Product No.	Position	Length (in.)	1	10	100	1000
472489CM	78B04S	4	0.480	\$1.99	\$1.87	\$1.71	\$1.62
472518CM	78B05S	5	0.580	2.05	1.92	1.76	1.67
472542CM	78B06S	6	0.680	1.69	1.58	.78	.74
472569CM	78B07S	7	0.780	1.69	1.61	.80	.76
472593CM	78B08S	8	0.880	2.35	2.22	2.11	1.79
472614CM	78B09S	9	0.980	2.25	2.12	1.94	1.84
472631CM	78B10S	10	1.080	2.29	2.15	1.97	1.87
472665CM	78B12S	12	1.280	1.89	1.81	1.01	.86

## Grayhill 76 Series Thru-Hole DIP Switches

- SPST rocker
- Spring ball contact
- Carrying current: 5A
- Dielectric strength: 500V<sub>RMS</sub>

**NEW**



### PSB - Piano DIP Style (UP is off)

Part No.	Product No.	Position	Length (in.)	1	10	100	1000
469554CM	76PSB04	4	0.480	\$1.79	\$1.71	\$.92	\$.87
469571CM	76PSB05	5	0.580	1.85	1.72	.96	.91
469597CM	76PSB06	6	0.680	1.89	1.77	.88	.84
469634CM	76PSB08	8	0.880	1.95	1.85	1.02	.97
469651CM	76PSB09	9	0.980	2.05	1.92	.95	.90
469677CM	76PSB10	10	1.080	2.09	1.99	.99	.94
469693CM	76PSB12	12	1.280	2.19	2.08	1.16	1.10

### RSB - Raised Rocker Style, Sealed

Part No.	Product No.	Position	Length (in.)	1	10	100	1000
469765CM	76RSB04S	4	0.480	\$1.65	\$1.54	\$.85	\$.81
469781CM	76RSB05S	5	0.580	1.69	1.61	.90	.85
469802CM	76RSB06S	6	0.680	1.75	1.63	.81	.77
469829CM	76RSB07S	7	0.780	1.75	1.66	.92	.87
469845CM	76RSB08S	8	0.880	1.85	1.71	.95	.90
469861CM	76RSB09S	9	0.980	1.85	1.75	1.47	1.40

See Our Complete Grayhill DIP Switch Offering at [www.Jameco.com/Prod/GrayhillDIP](http://www.Jameco.com/Prod/GrayhillDIP)

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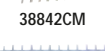
More at [www.Jameco.com](http://www.Jameco.com)

## JAMECO ValuePro DIP Switches



- Switch contacts: SPST
- Switches are numbered
- 50VDC @ 100mA
- Molded construction
- Standard switches have raised lever
- LP switches are flush to casing
- Pre-tinned leads

**A Jameco EXCLUSIVE**



Compatible Socket Chart, see page 141 for Sockets

Switch	Socket	Switch	Socket	Switch	Socket
109058CM	112192CM	38827CM	37161CM	101857CM	38113CM
38819CM	51570CM	38842CM	37372CM	38798CM	38607CM
139003CM	51570CM	139011CM	37372CM	38800CM	39378CM
109057CM	112192CM	139002CM	51570CM	38834CM	37161CM
38818CM	51570CM	38826CM	37161CM	101856CM	38113CM
206359CM	51570CM	454547CM	—	38797CM	38607CM

Part No.	Cross Ref. No.	Pos.	1	10	100	1000
109058CM	206-2	2	\$.75	\$.68	\$.61	\$.55
38819CM	206-4	4	.65	.55	.49	.45
139003CM	206-4LP	4	.79	.70	.55	.44
38827CM	206-6	6	.99	.89	.79	.72
38842CM	206-8	8	.89	.80	.72	.64
139011CM	206-8LP	8	.85	.76	.61	.47
101857CM	206-9	9	.85	.79	.69	.59
38798CM	206-10	10	.95	.86	.68	.59
38800CM	206-12	12	1.05	.99	.93	.62

### Other Manufacturers — Great Deals

Part No.	Cross Ref. No.	Pos.	1	10	100	1000
109057CM	206-2*	2	\$.69	\$.61	\$.56	\$.51
206359CM	206-3*	3	.79	.65	.55	.413
38818CM	206-4	4	.48	.44	.40	.36
139002CM	206-4LP*	4	.73	.64	.51	.41
38826CM	206-6*	6	.91	.82	.73	.66
454547CM	DMR06T	6	.89	.80	.71	.58
38834CM	206-7*	7	.95	.86	.77	.62
101856CM	206-9*	9	.78	.73	.61	.46
38797CM	206-10*	10	.87	.79	.71	.59

\* Manufacturer may vary † SMT

## JAMECO ValuePro Tri-State DIP Switch

- Switch contacts: bused, tri-state
- 8 positions
- Pre-tinned leads
- Labeled tri-state positions (+, 0, -)
- Contact rating: 24VDC @ 25mA
- Compatible socket, use P/N 37372CM, pg 141
- Two isolated buses

**A Jameco EXCLUSIVE**



Part No.	Cross Ref. No.	1	10	50	100
138991CM	ETA108E	\$1.95	\$1.75	\$1.55	\$1.35

## GG DIP Switches

- Standard profile
- 2A @ 5VDC or 25mA @ 25VDC

**NEW**



Part No.	Product No.	Pos.	Lngh	1	10	50
617924CM	35-970	10	1.08"	\$2.75	\$2.49	\$2.24
617916CM	35-968	8	0.88"	2.35	2.16	1.94
617908CM	35-964	4	0.48"	1.75	1.59	1.44

## C&K DIP Switches



BD Series

BPA Series

SD Series

SDA Series

TDA Series

### BD Series Standard Profile

- Traditional full profile DIP switch
- Insulation resistance: 1,000MΩ min.
- Dielectric strength: 500V<sub>RMS</sub> @ sea level
- Contact rating: 100mA @ 50VDC
- Operating temp.: -40°C to +85°C

### BPA Series Side Actuated

- Side actuated contacts
- Dielectric strength: 300VAC for 1 min.
- Insulation resistance: 100VDC 100MΩ min.
- Contact rating: 100mA @ 50VDC
- Operating temp.: -20°C to +85°C

### SD Series Low Profile

- Sealed with top tape
- Insulation resistance: 10MΩ or 1,000MΩ min.
- Dielectric strength: 500V<sub>RMS</sub> @ sea level
- Contact rating: 100mA @ 50VDC
- Operating temp.: -20°C to +85°C

### SDA Series Low Profile

- Contact rating: 25mA @ 24VDC; 100mA @ 50VDC
- Insulation resistance: 1,000MΩ min. @ 100VDC
- Dielectric strength: 300VAC for 1 min.
- Operating temp.: -20°C to +85°C

### TDA Series Low Profile

- Contact rating: 25mA @ 24VDC; 100mA @ 50VDC
- Insulation resistance: 1,000MΩ min. @ 100VDC
- Dielectric strength: 300VAC for 1 min.
- Operating temp.: -20°C to +85°C

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See Our Complete C&K DIP Switch Offering at [www.Jameco.com/Prod/CKDIP](http://www.Jameco.com/Prod/CKDIP)



## Alcoswitch

### AD Series

- Contact rating: 0.4VA @ 20VDC max.
- Dielectric strength: 500VAC
- Insulation resistance: 1,000MΩ min. @ 100VDC

### GD Series

- Contact rating: 0.4VA 25mA @ 24VDC
- Insulation resist.: 100MΩ min. @ 250VDC

### DRD Series Sealed Rotary

- Contact rating: 0.4VA max. @ 20VDC max.
- Insulation resistance: 1,000MΩ min. @ 100VDC

### 7000 Series

- Current/voltage rating: Non-switching-1.0A max. @ 50VDC
- Dielectric withstanding voltage: 500VDC min.

### 7100 Series SPST Rocker Style Actuator

- Current/voltage rating: Non-switching-1.0A max. @ 40VDC
- Dielectric withstanding voltage: 500VDC min.

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See Our Alcoswitch DIP Switch Offering at [www.Jameco.com/Prod/AlcoDIP](http://www.Jameco.com/Prod/AlcoDIP)

## DIP Switches



## 16-Button Keypad Switch

- 1/2" button centers
- Flange mounted
- Top surface or sub-surface mounting
- Snap-dome contact provides positive feedback
- 4" x 4" grid
- Rating @ 24VDC: 10mA resistive
- Contact resistance: 10Ω maximum (compatible with MOS, TTL, and DTL)
- Voltage breakdown: 250VAC
- Life expectancy: 3,000,000 operations per button



Part No.	Product No.	1	10	100
302025CM	86BB2-006	\$18.55	\$16.79	\$16.15

## Modular Keypad Switch

### Series 82

- Unlighted for legend inserts
- Rating: 100mA @ 5VDC
- Contact resistance: 25mΩ or less
- Insulation resistance: 1000MΩ min.

Lower \$\$\$



Part No.	Description	1	10	100
472948CM	SPST 1 button	\$4.19	\$3.22	\$2.85

## 16-Button Indoor/Outdoor Keypads

- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Recommended connector: P/N 103190CM header and P/N 100765CM pin, pg 144
- Size (housing): 4.7"W x 1.7"H x 0.4"T



196171CM



152063CM

\* Minimum order 10 pieces

Part No.	Description	1	10	100
196171CM	2x8 matrix keypad ..	\$16.95	\$15.29	\$13.75
152063CM	4x4 matrix keypad ....	14.95	13.49	11.95
103190CM	Header housing (10-pin) ⊕	.42	.39	.36
100765CM	Header pin (10 per pack) ⊕ *	.14	.11	

See page 337  
for more Switches

## Keyboard Switches

### ML Series Notebook Profile .27"

- Normally open contact
- Volt.: 12VAC/DC max, 2VDC min.
- Current: 10mA AC/DC max, 100μA DC min.
- Insulation resist.: 100MΩ @ 100VDC
- Life: >20 million operations



ML Series

### MX Series Desktop Profile .60"

- PCB or frame mount
- Volt.: 12VAC/DC max, 2VDC min.
- Current: 10mA AC/DC max, 10μA DC min.
- Insulation resistance: 100MΩ @ 100VDC



MX Series

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See Our Complete Keyboard Switch Offering at [www.Jameco.com/Prod/CherryKbdSwitches](http://www.Jameco.com/Prod/CherryKbdSwitches)

## Detect Switches

### DDS Series Micro Mini Thru-Hole

- Contact rating: 0.1A @ 30VDC
- Contact resistance: 150mΩ max.

### KDS Series Intrusion

- Contact rating: 0.4A @ 20VAC/DC

### KSM Series Side Actuated

- Contact resistance: ≤200mΩ

### KSU Series Micro Mini Surface Mount

- Momentary, normally closed contact
- Insulation resistance: 1,000MΩ min. @ 100VDC

### SDS Series Side Actuated

- Low profile package sits just 2mm off PCB
- Insulation resistance: 100MΩ min. @ 100VDC
- Contact resistance: 100mΩ max.

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See Our Complete C&K Detect Switch Offering at [www.Jameco.com/Prod/CKDetect](http://www.Jameco.com/Prod/CKDetect)



DDS Series



KDS Series



KSM Series



KSU Series



SDS Series

## 16-Button Numeric Keypad

- 4 x 4 matrix keypad
- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H



⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	100
169244CM	Numeric keypad ⊕	\$7.95	\$6.95	\$6.25

## 12-Button Telephone Keypads

- 8-pin .100" header
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- White plastic tactile type keypad
- Life test: 1,000,000 cycles per key
- Size: 2.8"L x 2.2"W x 0.6"H



153488CM

Part No.	Description	1	10	100
190561CM	Numeric keypad ⊕	\$8.75	\$7.45	\$5.59
153488CM	Alpha numeric keypad ⊕	9.49	8.55	7.69

## Key Switches

### D6 Series SPST Momentary

- Switching power: 6VA max.
- Easy X, Y coding on single sided PCB
- Operating temp.: -20°C to +85°C
- Dielectric strength: 1,000V for 1 minute @ 50Hz
- Contact resistance: ≤100 mΩ
- Insulation resistance: ≥100,000MΩ



D6 Series

### K6 Series Miniature

- Designed for low-level switching
- Switching power: 0.02mW/3W DC
- Switching voltage: 2VDC/30VDC
- Operating temp.: -40°C to +85°C
- Contact resistance: initial 50 mΩ
- Insulation resistance: ≥10,000MΩ
- Dielectric strength: ≥300V @ 50Hz



K6 Series

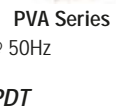
### K12 Series High Performance

- High reliability/long life
- Switching power: 0.02mW/3W DC
- Switching voltage: 2VDC/30VDC
- Operating temp.: -40°C to +85°C
- Contact resistance: initial 50 mΩ
- Insulation resistance: ≥10,000MΩ
- Dielectric strength: ≥500V @ 50Hz



### PVA Series Short Stroke

- Switching voltage: 50VDC
- Operating temp.: -40°C to +85°C
- Contact resistance: initial ≤100 mΩ
- Insulation resistance: ≥10,000MΩ
- Dielectric strength: 1,000V or 750V @ 50Hz
- Switching power: 3W DC



PVA Series

### Digitast Series Microminiature SPDT

- Switching power: 240mW DC
- Dielectric strength: 500V @ 50Hz
- Switching voltage: 24VDC
- Operating temp.: -25°C to +85°C
- Contact resistance: initial ≤50 mΩ
- Insulation resistance: ≥10,000MΩ



Digitast

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See Our Complete C&K Key Switch Offering at [www.Jameco.com/Prod/CKKeySwitches](http://www.Jameco.com/Prod/CKKeySwitches)



## Potter & Brumfield General Purpose Relays

- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications

- UL/CSA approved
- Contact arrangements from SPDT to 4PDT



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

Part No.	Product No.	Tyco No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Curr. (mA)	Mating Socket*		Pricing			
									Standard	DIN Rail	1	10	25	50
282247CM	K10P-11A15-120	4-1393144-0	1	DPDT	15A@30VDC; 15A@120VAC	120VAC	3,900	11	27E488/489	27E895	\$6.99	\$6.49	\$6.09	\$5.42
282255CM	K10P-11D15-12	5-1393144-5	1	DPDT	15A@30VDC; 15A@120VAC	12VDC	160	75	27E488/489	27E895	7.25	6.90	6.54	5.90
282263CM	K10P-11D15-24	5-1393144-7	1	DPDT	15A@30VDC; 15A@120VAC	24VDC	650	37	27E488/489	27E895	7.29	6.55	6.35	5.78
282280CM	KHAU-17A11-24	2-1393122-1	2	4PDT	3A@120VAC/28VDC (max)	24VAC	160	52	27E166	27E894	5.45	5.29	5.17	4.77
282271CM	KHAU-17A11-120	2-1393122-0	2	4PDT	3A@120VAC/28VDC (max)	120VAC	3,900	11	27E166	27E894	7.15	6.99	6.49	6.35
498013CM	KHAU-17A18-240	4-1393122-0	2	4PDT	3A@120VAC/28VDC (max)	240VAC	12,000	6	27E166	27E894	15.29	14.54	12.80	11.26
282301CM	KHAU-17D11-12	4-1393122-3	2	4PDT	3A@120VAC/28VDC (max)	12VDC	160	100	27E166	27E894	5.69	5.52	5.352	5.077
498048CM	KHAU-17D11-24	4-1393122-4	2	4PDT	3A@120VAC/28VDC (max)	12VDC	650	52	27E166	27E894	9.65	9.17	8.07	7.10
282319CM	KHAU-17D12-24	5-1393122-7	2	4PDT	5A@120VAC/28VDC (max)	24VDC	650	52	27E166	27E894	6.15	5.925	5.699	5.259
300943CM	KRPA-5AG-24	9-1393104-9	3	SPDT	10A@240VAC	24VAC	85	84	27E122	27E891	26.35	24.92	23.40	22.01
282431CM	KRPA-5AG-120	9-1393104-8	3	SPDT <sup>G</sup>	10A@240VAC	120VAC	2,250	17.5	27E122	27E891	16.45	15.84	15.23	14.06
300951CM	KRPA-5AY-120	1393105-1	3	SPDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	120VAC	2,250	17.5	27E122	27E891	24.55	23.26	21.84	20.06
300960CM	KRPA-5DG-12	1393105-3	3	SPDT	10A@240VAC	12VDC	120	100	27E122	27E891	18.15	17.99	17.83	17.35
282440CM	KRPA-5DG-24	1393105-4	3	SPDT	10A@240VAC	24VDC	472	51	27E122	27E891	17.65	16.52	15.42	13.95
300986CM	KRPA-11AG-6	2-1393104-8	3	DPDT	10A@240VAC	6VAC	6	335	27E122	27E891	16.19	15.72	15.25	14.08
282335CM	KRPA-11AG-12	3-1393104-4	3	DPDT <sup>G</sup>	10A@240VAC	12VAC	24	168	27E122	27E891	12.55	11.54	10.99	9.95
282351CM	KRPA-11AG-24	1-1393105-2	3	DPDT <sup>G</sup>	10A@240VAC	24VAC	85	84	27E122	27E891	10.79	10.37	9.87	9.10
282343CM	KRPA-11AG-120	2-1393104-5	3	DPDT <sup>G</sup>	10A@240VAC	120VAC	2,250	17.5	27E122	27E891	10.05	9.82	9.55	8.79
300994CM	KRPA-11AG-240	2-1393104-7	3	DPDT <sup>G</sup>	10A@240VAC	240VAC	9,110	8.75	27E122	27E891	17.95	17.42	16.88	15.58
301006CM	KRPA-11AN-12	3-1393104-1	3	DPDT	10A@240VAC	12VAC	24	168	27E122	27E891	15.15	14.72	14.29	13.20
301014CM	KRPA-11AN-24	3-1393104-3	3	DPDT <sup>N</sup>	10A@240VAC	24VAC	85	84	27E122	27E891	17.25	16.50	15.77	14.57
282360CM	KRPA-11AN-120	3-1393104-2	3	DPDT <sup>N</sup>	10A@240VAC	120VAC	2,250	17.5	27E122	27E891	10.89	10.53	10.16	9.35
301031CM	KRPA-11AY-24	3-1393104-7	3	DPDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	24VAC	85	84	27E122	27E891	15.69	15.24	14.79	13.65
301049CM	KRPA-11AY-120	3-1393104-6	3	DPDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	120VAC	2,250	17.5	27E122	27E891	11.55	11.05	10.56	10.25
301057CM	KRPA-11DG-6	4-1393104-7	3	DPDT	10A@240VAC	6VDC	22	188	27E122	27E891	13.09	12.90	12.70	12.36
282378CM	KRPA-11DG-12	4-1393104-3	3	DPDT <sup>G</sup>	10A@240VAC	12VDC	120	100	27E122	27E891	10.75	10.31	9.87	9.10
282386CM	KRPA-11DG-24	4-1393104-5	3	DPDT <sup>G</sup>	10A@240VAC	24VDC	472	51	27E122	27E891	12.25	11.65	11.30	10.51
301065CM	KRPA-11DG-48	4-1393104-6	3	DPDT	10A@240VAC	48VDC	1,800	26.6	27E122	27E891	16.35	15.79	15.24	14.06
301073CM	KRPA-11DG-110	4-1393104-2	3	DPDT <sup>G</sup>	10A@240VAC	110VDC	10,000	11.5	27E122	27E891	13.05	12.47	11.88	10.89
301081CM	KRPA-11DG-125	4-1393104-4	3	DPDT	10A@240VAC	125VDC	10,000	11.5	27E122	27E891	16.95	16.40	15.84	14.61
282394CM	KRPA-11DN-24	5-1393104-1	3	DPDT <sup>N</sup>	10A@240VAC	24VDC	472	51	27E122	27E891	11.15	10.68	10.21	9.42
301102CM	KRPA-11DN-110	4-1393104-9	3	DPDT <sup>N</sup>	10A@240VAC	110VDC	10,000	11.5	27E122	27E891	17.65	17.18	16.71	14.85
301145CM	KRPA-14AN-24	7-1393104-4	3	3PDT <sup>N</sup>	5A@120VAC; 3A@240VAC	24VAC	85	84	27E123	27E892	14.89	14.69	14.48	14.09
282415CM	KRPA-14AN-120	7-1393104-3	3	3PDT <sup>N</sup>	10A@240VAC	120VAC	2,250	17.5	27E123	27E892	13.45	12.88	12.30	11.37
301153CM	KRPA-14AN-240	7-1393104-5	3	3PDT <sup>N</sup>	10A@240VAC	240VAC	9,110	8.75	27E123	27E892	21.85	20.68	19.42	18.27
282407CM	KRPA-14AG-120	6-1393104-5	3	3PDT <sup>G</sup>	10A@240VAC	120VAC	2,250	17.5	27E123	27E892	11.79	11.20	10.82	9.98
301137CM	KRPA-14AG-240	6-1393104-8	3	3PDT <sup>G</sup>	10A@240VAC	240VAC	9,110	8.75	27E123	27E892	19.35	18.84	18.33	17.72
301161CM	KRPA-14AY-24	7-1393104-8	3	3PDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	24VAC	85	84	27E123	27E892	18.25	17.84	16.75	15.76
301170CM	KRPA-14AY-120	7-1393104-7	3	3PDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	120VAC	2,250	8.75	27E123	27E892	18.25	17.49	16.72	15.43
301188CM	KRPA-14DG-12	8-1393104-2	3	3PDT	10A@240VAC	12VDC	120	100	27E123	27E892	13.95	13.55	13.16	12.21
282423CM	KRPA-14DG-24	8-1393104-4	3	3PDT <sup>G</sup>	10A@240VAC	24VDC	472	51	27E123	27E892	12.05	11.57	11.08	10.22
301196CM	KRPA-14DG-48	8-1393104-5	3	3PDT	10A@240VAC	48VDC	1,800	26.6	27E123	27E892	20.35	19.26	18.09	17.01
301209CM	KRPA-14DG-110	8-1393104-1	3	3PDT	10A@240VAC	110VDC	10,000	11.5	27E123	27E892	15.89	14.39	13.89	12.56
301217CM	KRPA-14DN-24	9-1393104-0	3	3PDT <sup>N</sup>	10A@240VAC	24VDC	472	51	27E123	27E892	12.49	11.97	11.44	10.55
282458CM	KUHP-11A51-120	6-1393114-9	4	DPDT	20A@120/240VAC	120VAC	1,700	24	—	—	11.09	10.89	10.85	10.75
499374CM	KUMP-14A18-12	8-1393116-3	6	3PDT	15A@277VAC	12VAC	18	230	27E121	27E893	19.55	19.04	18.12	14.69
499526CM	KUMP-7A58-24	8-1393116-7	6	DPST NO	15A@277VAC	24VAC	72	115	27E121	27E893	18.75	18.27	17.36	12.84
301090CM	KRPA-11DN-12	5-1393104-0	3	DPDT <sup>N</sup>	10A@240VAC	12VDC	120	100	27E122	27E891	15.75	15.58	14.62	12.99
301111CM	KRPA-11DY-24	5-1393104-7	3	DPDT <sup>Y</sup>	5A@120VAC; 3A@240VAC	24VDC	472	51	27E122	27E891	12.55	11.77	10.99	9.95

\* For sockets see page 197

<sup>G</sup> = Silver-cadmium oxide, no lamp    <sup>N</sup> = Silver-cadmium oxide with lamp    <sup>Y</sup> = Silver contacts, no indicator lamp

1 = Plain case    2 = with indicator lamp

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♣ Blue Part No. = Limited Quantity Available

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## Potter & Brumfield General Purpose Relays (Continued)



**NEW**

Part No.	Product No.	Tyco No.	Fig.	Contact Form	Contact Rating	Coil Voltage	Coil Resis. (Ω)	Coil Curr. (mA)	Mating Socket*		Pricing			
									Standard	DIN Rail	1	10	25	50
499534CM	KUMP-7D58-12♣	8-1393116-9	6	DPST NO	15A@277VAC	12VDC	120	100	27E121	27E893	\$16.05	\$15.37	\$14.07	\$13.64
282466CM	KUL-11A15S-120⊕	2-1393115-6	5	DPDT	10A@28VDC or 240VAC	120VAC	3,700	30	27E121	27E893	34.05	31.24	29.81	26.97
499585CM	KUP-11A15-24♣	2-1393117-1	6	DPDT	10A@28VDC or 240VAC	24VAC	85	84	27E121	27E893	14.45	13.77	12.61	10.67
499569CM	KUP-11A15-120♣	1-1393117-9	6	DPDT	10A@28VDC or 240VAC	120VAC	2,250	17.5	27E121	27E893	14.45	13.77	12.61	10.67
499796CM	KUP-11D15-12♣	4-1393117-4	6	DPDT	10A@28VDC or 240VAC	12VDC	120	100	27E121	27E893	14.45	13.77	12.61	10.67
499817CM	KUP-11D15-36♣	4-1393117-6	6	DPDT	10A@28VDC or 240VAC	36VDC	1,800	26.7	27E121	27E893	15.35	14.97	14.24	11.55
499788CM	KUP-11D15-110♣	4-1393117-3	6	DPDT	10A@28VDC or 240VAC	110VDC	10,000	11	27E121	27E893	14.45	13.77	12.61	10.67
282474CM	KUP-14A15-120	7-1393117-8	6	3PDT <sup>1</sup>	10A@28VDC or 240VAC	120VAC	1,700	24	27E121	27E893	10.49	10.19	9.89	9.20
282482CM	KUP-14A35-120	8-1393117-7	6	3PDT <sup>2</sup>	10A@28VDC or 240VAC	120VAC	1,700	24	27E121	27E893	12.49	11.87	11.24	10.06
282503CM	KUP-14D15-24	1-1393118-4	6	3PDT	10A@28VDC or 240VAC	24VDC	472	51	27E121	27E893	11.45	10.72	9.99	9.07
282491CM	KUP-14D15-110	1-1393118-2	6	3PDT	500mA@28VDC or 155VAC(min)	110VDC	10,000	11	27E121	27E893	11.89	11.15	10.41	9.42
282538CM	R10-E1X4-V185	1-1393766-4	7	4PDT	5A@28VDC or 155VAC (max)	12VDC	185	60	27E163	27E461	14.89	14.37	13.84	12.93

\* For sockets see page 197 1 = Plain case 2 = with indicator lamp

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## Industrial Relays

### T7C Series General Purpose

- SPDT • PCB through hole
- Coil magnetic system: monostable
- Nominal coil power: 360mW
- Contact material: silver cadmium oxide

**NEW**



Part No.	Product No.	Coil Volt.	Coil Resistance	1	10	25	50
637642CM	T7CS5D-12♣	12VDC	400Ω	\$1.14	\$1.12	\$1.10	\$1.08

### S87R Series Low Cost 20A

- DPDT • Nominal power: 4.5W
- Coil terminal: located perpendicular to switch terminals
- Nominal coil current: 188mA • 0.250" quick connect solder
- Material: silver and silver cadmium oxide
- Expected life: 1 million operations, mechanical; 50,000 operation @ rated load
- Initial breakdown voltage: 1500VRMS, 60Hz

**NEW**



Part No.	Product No.	Coil Volt.	Coil Resistance	1	10	25	50
552788CM	S87R11D2B1D124♣	24VDC	12Ω	\$37.35	\$35.57	\$30.63	\$27.55

### General Purpose R10-E1Y4 Series

- Coil magnetic system: monostable
- 3-48 mounting stud, socket
- Contact material: fine silver
- Termination: solder terminals
- Contact rating: 3A • Contact form: 4PDT
- Nominal coil power: 500mW

**NEW**



Part No.	Product No.	Coil Volt.	Coil Resistance	1	10	25	50
552690CM	R10-E1Y4-V2.5K♣	48VDC	2500Ω	\$16.45	\$15.70	\$14.65	\$14.21



## Input/Output Module Relays

- Switch form: SPST-NO
- Isolation: 4,000Vrms, 60Hz
- Capacitance: 8pF typical (input to output)

**NEW**



Part No.	Product No.	Color	Voltage	Resistance	1	10	25	50
637600CM	IAC-5♣	Yellow	5VDC	28KΩ	\$11.05	\$10.52	\$10.02	\$8.82
551822CM	OACM-5H♣	Black	5VDC	220Ω	14.15	13.40	12.73	12.11
282511CM	ODC-5⊕	Red	5VDC	250Ω	9.15	9.00	8.85	7.65
551857CM	ODC-5A♣	Red	5VDC	1000Ω	14.79	14.08	13.28	12.64
551831CM	ODC-15♣	Red	15VDC	1000Ω	11.69	11.11	10.58	9.63
551849CM	ODC-15A♣	Red	15VDC	1000Ω	13.99	13.21	12.64	11.51
551865CM	ODCM-15♣	Red	15VDC	1000Ω	14.75	13.88	13.09	12.35
551873CM	ODCM-uA♣	Red	15VDC	1000Ω	16.15	15.36	14.63	14.22

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## S89R Series Bistable, Impulse Relay

- Contact rating: 15A • Nominal power: 9W @ 25°C
- Contact life: 10 million operations; 50,000 mechanical operations
- Initial breakdown voltage: 1,500Vrms, 60Hz
- Dust cover with octal plug-in base • Current: 75mA



Part No.	Product No.	Voltage	Resistance	1	10	25	50
282546CM	S89R11APP1-120⊕	120VAC	260Ω	\$57.65	\$56.05	\$54.22	\$38.97

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## Relay Sockets



282132CM



282183CM



282124CM



282191CM

### Relay Sockets for KRPA Series (Octal)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282132CM	27E122⊕	DPDT	8	Standard	\$3.95	\$3.80	\$3.66	\$3.26
282159CM	27E891⊕	DPDT	8	DIN Rail	4.55	4.33	4.16	3.83
282141CM	27E123⊕	3PDT	11	Standard	4.75	4.40	4.05	3.60
282167CM	27E892⊕	3PDT	11	DIN Rail	7.89	7.33	6.77	6.02

### Relay Socket for KHAU Series

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282183CM	27E894⊕	4PDT	14	DIN Rail	\$6.75	\$6.48	\$6.20	\$5.51

### Relay Sockets for KUP Series (11-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282124CM	27E121⊕	3PDT	11	Standard	\$6.99	\$6.49	\$5.99	\$5.32
282175CM	27E893⊕	3PDT	11	DIN Rail	7.89	7.50	7.27	6.54

### Relay Socket for K10 Series (8-blade square)

Part No.	Product No.	Contact Arr.	Pins	Type	1	10	25	50
282191CM	27E895⊕	DPDT	8	DIN Rail	\$5.59	\$5.19	\$4.79	\$4.42

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## Mounting Boards for Input/Output Module

### 210 Series

- LED status indicators, plug-in fuses and pull-up resistors
- Screw terminal logic connections
- Screw terminals for field wiring
- UL recognized/CSA certified for 125V max. w/ 5A fuses; 250V max w/ #22 AWG solid copper jumper wires



**NEW**

Part No.	Product No.	I/O channels	Module Positions	1	10	25	50
497109CM	2104A♣	4	4	\$37.45	\$34.27	\$32.36	\$31.10
497117CM	2104B♣	4	4	37.45	34.27	32.36	31.10
497125CM	2104C♣	4	4	37.69	35.89	34.17	32.53



## PB CDB Series CMOS IC Time Delay Relay

- Initial dielectric strength: between open contacts – 500V<sub>RMS</sub>, 60Hz; between other contacts – 500V<sub>RMS</sub>, 60Hz
- Timing ranges: 0.1 seconds to 180 seconds
- Timing adjustment: knob type • DPDT
- Release and recycle time: 45ms typical; 60ms max.
- Contact material: silver-cadmium oxide alloy
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 10,000 operations min. @ rated load

Power requirement: AC or DC – typically less than 3W

Part No.	Product No.	Voltage	Time (sec)	Pins	1	10	25
497299CM	CDB-38-70004	120VAC	0.6 – 60	8	\$200.15	\$178.70	\$173.05

## PB CNM5 Series Multi-Function Time Delay Relay

- For plug-in or panel mount • DPDT
- Digital adjustment via thumbwheel switches
- Timing ranges: 0.1 – 99.9/1 to 999 seconds; 0.1 – 99.9/1 to 999 minutes; 0.1 – 99.9/1 – 999/10 – 9,990 hours
- Reset time (power interruption): 45ms typical; 60ms max.
- Initial dielectric strength: between output poles – 1500V<sub>RMS</sub>, 60Hz; between input and output – 1500V<sub>RMS</sub>, 60Hz
- Contact material: silver-cadmium oxide alloy
- Contact rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operation min. @ rated load
- 1/16 black plastic case • Transient protection: 13 joules MOV

Power requirement: 3W @ 120VAC

Part No.	Product No.	Voltage	Pins	1	10	25
497344CM	CNM5	120VAC	11	\$66.95	\$62.43	\$60.54

## PB CNS Series Multifunction Time Delay Relays

- DPDT • Rating: 10A @ 30VDC or 277VAC
- Electrical life: 100,000 operations at rated load
- Dielectric strength: 1,000V<sub>RMS</sub>, 60Hz between open contacts; 1,500V<sub>RMS</sub>, 60Hz between all other contacts

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 25VAC/VDC

Part No.	Product No.	Voltage	Timing Functions	Pins	1	10	25
497352CM	CNS-35-72	120VAC	4	8	\$67.39	\$59.79	\$57.12
282212CM	CNS-35-92	24-240VAC/VDC	4	8	\$67.89	\$62.23	\$56.57
282221CM	CNS-35-96	24-240VAC/VDC	8	11	\$79.05	\$75.46	\$71.87

## PB CNT Series Multifunction, Digital Time Delay Relay/Counter

- Digital adjustment via thumbwheel switches
- Maximum count: 1 to 999; 10 to 9,990; 100 to 99,900
- Maximum count rate: 100 counts per second
- Rating: 10A @ 30VDC or 277VAC resistive
- Electrical life: 100,000 operations min. at rated load
- Dielectric strength: 1,000V<sub>RMS</sub>, 60Hz between open contacts; 1,500V<sub>RMS</sub> between all other contacts • 11-pin octal style plug • DPDT

Power requirement: 10W @ 240VAC/VDC; 5W @ 120VAC/VDC; 1W @ 24VAC/VDC

Part No.	Product No.	Voltage	1	10	25
497432CM	CNT-35-26	120VAC	\$98.85	\$86.96	\$80.43
282239CM	CNT-35-96	24-240VAC/VDC	\$92.25	\$89.97	\$87.17

## PB DIN Rail Mount Socket and Track Mounting System

For use with KHAU, KUP, and K10 series DIN relay sockets

282204CM: End clip insulator for preventing sockets from moving sideways or sliding off track

282108CM: Steel mounting clip with #6-32 screw (7/16")

Part No.	Product No.	Description	1	10	25	50
282204CM	40G432	Mounting plastic insulator	\$0.62	\$0.61	\$0.60	\$0.58
282108CM	24A071	Steel mounting clip	\$0.52	\$0.48	\$0.46	\$0.45
282116CM	24A110	36" mounting track	\$10.15	\$9.59	\$9.03	\$8.28

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## PB CS Series Solid State Hybrid Voltage Sensors

- Power requirements: typically less than 3W
- Continuous duty cycle
- Internal contact arrangement: DPDT
- Internal relay contact rating: 10A @ 28VDC resistive; or 120VAC
- Reverse polarity protection on DC types
- 8-pin octal style plug, plastic dust cover

Fixed pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497491CM	CSJ-38-71010	105	90-103	140VAC	\$141.49	\$124.49	\$111.15

Adjustable pick-up and adjustable drop-out

Part No.	Product No.	Pick-up Voltage	Drop-out Voltage	Max. Voltage	1	10	25
497504CM	CSL-38-30010	20-30	18-28	32VDC	\$152.65	\$134.29	\$119.89



## DC Output Modules

- Transient protection: meets the requirements of IEEE-472 "Surge Withstanding Capability Test"
- Contact arrangement: SPST NO
- Load current range: STD-70 series – 0.02 to 3.5A; Mini 70M series – 0.02 to 3A
- Nominal logic voltage: 5Vcc
- Surge current for 1 second: 5A
- Max. reverse logic voltage: -5VDC
- UL/CSA/CE certified
- Optical isolation
- Isolation voltage: 4000V<sub>RMS</sub>
- Min. drop-out voltage: 1VDC

Part No.	Product No.	Max. Logic Supply Current	Max. Line Voltage	Clamping Voltage	1	10	25
469431CM	70M-ODC5	14mA	60VDC	80VDC	\$11.59	\$11.00	\$10.45
469440CM	70M-ODC5A	18mA	200VDC	360VDC	\$19.49	\$18.52	\$17.59
469466CM	70-ODC5	14mA	60VDC	80VDC	\$11.59	\$11.00	\$10.45

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## DC Input Modules

- Fast switching polarized input types
- UL/CSA/CE certified
- Optical isolation
- Output current range: 1 – 50 mA
- Min. output breakdown voltage: 50VDC
- Isolation voltage: 4000V<sub>RMS</sub>
- Max. input voltage: 32VDC
- Max. pick-up voltage: 3VDC
- Max. drop-out voltage: 1VDC
- Input current @ max. input voltage: 18mA
- Nominal logic voltage: 5
- Max. logic supply current @ nominal Vcc: 10mA

Part No.	Product No.	Input Voltage Range	Resistance	1	10	25
469423CM	70M-IDC5	3-32VDC	1.8kΩ	\$8.59	\$8.15	\$7.74



## Dry Contact & Mechanical Relay Output Module

- Contact arrangement: SPST NO
- Max. current rating: 10W
- Min. drop-out voltage: 2.5VDC
- Max. contact resistance: 250mΩ
- Max. off-state leakage current: 0.002mA
- Nominal logic voltage: 5Vcc
- UL, CSA certified
- 1500VAC optical isolation
- Built-in status LED
- Max. rev. logic voltage: -5VDC

Part No.	Product No.	Max. Logic Supply Current	Max. Line Voltage	Nom. Input Resistance	1	10	25
469458CM	70M-ODC5R	10mA	100VDC/120VAC	50Ω	\$20.05	\$19.02	\$18.07

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## crydom Series IDC DC Input Modules

- Nominal input voltage: 24VDC
- Input voltage range: 10 – 36VDC
- Max. input current: 16mA
- Nominal logic voltage: 5VDC
- Logic voltage range: 1.5 – 6VDC
- Typical logic supply current: 10mA
- Max. logic supply current: 18mA
- Max. output voltage: 30VDC
- Isolation: 4000V<sub>RMS</sub>

**NEW**



- Max. output current: 50mA
- UL/CSA/CE approved

Part No.	Product No.	Description	1	10	50	100
479533CM	IDC5BQ	Quad DC input module	\$51.35	\$40.90	\$38.72	\$36.78
479550CM	IDC5Q	Quad DC input module	44.55	42.33	40.31	38.37
479541CM	IDC5D	Dual DC input module	8.15	6.50	6.18	5.90

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## crydom Solid State Relays

### Series SDV/SDI Solid State

- Operating voltage range: 12 – 128V<sub>RMS</sub>
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Max. capacitance, input-output: 2pF
- Load current range: 0.025 – 1.5A<sub>RMS</sub>
- Transient over voltage: 600Vpk
- Max. surge current: 30A<sub>pk</sub>

#### SDV Series:

- Control voltage range: 3.5 – 10VDC
- Typical input current @ 5VDC: 15mA
- Must turn-on voltage: 3.5VDC
- Dielectric strength: 3750V<sub>RMS</sub>
- Nominal input impedance: 270Ω
- Must turn-off voltage: 1VDC

#### SDI series:

- Control current range: 10 – 35mA
- Must turn-on current: 10mA
- Must turn-off current: 1mA

Part No.	Product No.	Description	1	10	50	100
480913CM	SDV2415	0 voltage relay	\$7.65	\$6.91	\$6.56	\$6.25
480921CM	SDV2415R	Random voltage relay	9.45	7.56	7.14	6.85
480892CM	SDI2415	0 voltage relay	9.45	7.56	7.19	6.85
480905CM	SDI2415R	Random voltage relay	9.09	8.27	7.88	7.49

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### Series 3 AC output Solid State

- Control voltage range: 3.5 – 8VDC
- Nominal input impedance: 200Ω
- Typical input current @ 5VDC
- Output operating voltage range: 20 – 140V<sub>RMS</sub>
- Load current range: 0.15 – 3.0A<sub>RMS</sub>
- Transient over voltage: 600Vpk
- Max. surge current: 55A<sub>pk</sub>
- Max. capacitance: 8pF
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Dielectric strength: 4000V<sub>RMS</sub>
- UL/CSA/VDE approved

Part No.	Product No.	Description	1	10	50	100
480876CM	S3012A	AC output relay w/ snubber	\$24.85	\$18.17	\$17.64	\$16.78

### Series T Quad Solid State

- Triac output
- Industry standard package
- Random turn-on, phase controllable
- Max. turn-on voltage: 4VDC
- Nominal input impedance: 330Ω
- Max. capacitance input/output: 10pF
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Panel mount
- Control voltage range: 4-15VDC
- Min. turn-off voltage: 1VDC
- Typical input current: 12mA @ 5VDC
- Dielectric strength: 2500V<sub>RMS</sub>

Part No.	Product No.	Op. Voltage (V <sub>RMS</sub> )	Max. Load Current (A <sub>RMS</sub> )	1	10	50	100
481019CM	TD24200-10	24-280	0.15-20	\$84.55	\$76.64	\$72.94	\$69.68

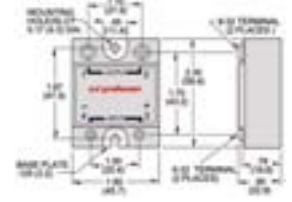
To Find Additional Products, Visit Our Website at [www.Jameco.com/Prod/CrydomPanelSS](http://www.Jameco.com/Prod/CrydomPanelSS)

## crydom Solid State Relays (Continued)

**NEW**

### Series T Solid State

- Zero voltage switching
- Internal snubber
- Dielectric strength 50/60Hz input/output/base: 4000V<sub>RMS</sub>
- Insulation resistance (min.) @ 500VDC: 10<sup>9</sup>Ω
- Max. capacitance input/output: 8pF
- Encapsulation: Thermally conductive epoxy
- Terminals: screws and saddle clamps
- 600V transient capability
- Panel mount
- Triac output



#### DC control input specifications:

- Control voltage range: 3-32VDC
- Max. turn-on voltage: 3VDC
- Nominal input impedance: 1500Ω
- Typical input current: 3mA @ 5VDC; 20mA @ 28VDC
- Max. reverse voltage: -32VDC
- Min. turn-off voltage: 1VDC

#### AC control input specifications:

- Control voltage range: 90-280V<sub>RMS</sub> (60Hz)
- Nominal input impedance: 60kΩ
- Typical input current: 20mA @ 120V<sub>RMS</sub>; 4mA @ 240V<sub>RMS</sub>
- Max. turn-on voltage: 90V<sub>RMS</sub>
- Min. turn-off voltage: 10V<sub>RMS</sub>

#### DC Control

Part No.	Product No.	Op. Voltage (V <sub>RMS</sub> )	Max. Load Current (A <sub>RMS</sub> )	1	10	50	100
480972CM	TD1210	24-140	10	\$25.49	\$24.31	\$23.11	\$21.35
480981CM	TD1210B	24-140	10	31.49	28.76	27.39	25.99
480999CM	TD1225	24-140	25	33.05	26.47	25.17	24.06
481001CM	TD2410	24-280	10	26.15	24.92	23.68	21.89
481027CM	TD2425	24-280	250	26.39	25.17	23.97	22.11
481035CM	TD2425B	24-280	25	32.55	29.78	28.27	26.88

#### AC Control

Part No.	Product No.	Op. Voltage (V <sub>RMS</sub> )	Max. Load Current (A <sub>RMS</sub> )	1	10	50	100
480956CM	TA2410	24-280	10	\$34.29	\$25.08	\$24.34	\$23.12
480964CM	TA2425	24-280	25	28.15	25.57	24.81	23.52

To Find Additional Products, Visit Our Website at [www.Jameco.com/Prod/CrydomPanelSS](http://www.Jameco.com/Prod/CrydomPanelSS)



## Circuit Breakers

**NEW**

- Quick connect style terminals
- Actuator: black plastic button
- Mounting hole: 0.450"
- Included hardware: nut, knurled nut, ID plate



Part No.	Product No.	Current Rating	1	10	50	100
621368CM	35-2104	4A @ 125/250VAC	\$4.75	\$3.69	\$3.49	\$3.29
621376CM	35-2105	5A @ 125/250VAC	4.75	3.69	3.49	3.29
621384CM	35-2106	6A @ 125/250VAC	4.75	3.69	3.49	3.29
621392CM	35-2107	7A @ 125/250VAC	4.75	3.69	3.49	3.29
621405CM	35-2018	8A @ 125/250VAC	4.75	3.69	3.49	3.29
621413CM	35-2110	10A @ 125/250VAC	4.75	3.69	3.49	3.29
621421CM	35-2112	12A @ 125/250VAC	4.75	3.69	3.49	3.29
621430CM	35-2115	15A @ 125/250VAC	4.75	3.69	3.49	3.29
621448CM	35-2120	20A @ 125/250VAC	4.75	3.69	3.49	3.29
621456CM	35-2125	25A @ 125/250VAC	4.75	3.69	3.49	3.29
621464CM	35-2130	30A @ 125/250VAC	4.75	3.69	3.49	3.29





## Universal Circuit Breakers

Function identically as OEM breakers but offer the versatility of snap off terminals for greater flexibility. SAE Type II modified reset used primarily as a wiring harness protector in 12 volt DC automotive systems. Conforms to SAE J553C standard. For mounting in ATO style fuse blocks and panels.

Part No.	Product No.	Amp Rating	1	10	25	50
638194CM	UCB15BP	15	\$5.99	\$5.69	\$5.39	\$5.09
638207CM	UCB20BP	20	5.99	5.69	5.39	5.09
638215CM	UCB30BP	30	5.99	5.69	5.39	5.09

To Find Additional Littlefuse Breakers, Visit Our Website at [www.Jameco.com/Prod/LittleFuse](http://www.Jameco.com/Prod/LittleFuse)

▲ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## PB W58 Series Thermal Circuit Breakers

- Max. operating voltage: 50VDC; 250VAC 50/60Hz
- Interrupt capacity: 2,000A @ 50VDC; 1,000A @ 250VAC 50/60Hz
- Endurance cycling: >1,000 operations @ 200% of rating
- Dielectric strength: >1,500V<sub>RMS</sub>
- Push button to reset breaker



Part No.	Product No.	Amp	Resistance	1	25	50	100
282562CM	W58-XB1A4A-10	10	0.014	\$3.39	\$3.19	\$2.99	\$2.79
282571CM	W58-XB1A4A-15	15	0.010	3.39	3.19	2.99	2.79
282589CM	W58-XB1A4A-20	20	0.006	3.39	3.19	2.99	2.79
282597CM	W58-XB1A4A-30	30	—	3.39	3.19	2.99	2.79

See Complete P&B Breaker Offering at [www.Jameco.com/Prod/PBBreakers](http://www.Jameco.com/Prod/PBBreakers)

See pages 196 – 203 for our complete selection of Relays

## PB Thermal Circuit Breakers

### W23/W33 Series Toggle or Push/Pull Actuator

- 0.5 to 50 amp ratings may be used as on/off switch
- Cannot be reset against overload
- Max. operating voltage: 50VDC or 250VAC to 400Hz
- Dielectric strength: over 1500V<sub>RMS</sub>

W33 Series



W28 Series

### W28 Series Switchable or Push to Reset

- Rocker on switchable model moves to "overload" position upon trip
- Approved to many international standards (push to reset type)
- Max. operating voltage: 32VDC, 250VAC to 50/60Hz
- Dielectric strength: over 1500V<sub>RMS</sub> • Fuseholder type

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete P&B Breaker Offering at [www.Jameco.com/Prod/PBBreakers](http://www.Jameco.com/Prod/PBBreakers)

## crydom Power Modules



B-2T Series



F18 Series



M50 Series

### B-2T/B-2 Series SCR/Diode Module

- 25-42.5 amp • For AC/DC voltage to 15kW

### F18 Series SCR/Diode Module

- 25-105 amp • Power control building blocks

### L3/L5/L6 Series SCR/Diode Module

- 15-42.5 amp • Low profile

### M50 Series SCR/Diode Module

- 50-100 amp • Over 40kW output capability

### M50 Diode Series Diode Module

- 60-100 amp • High surge current rectifier circuits

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Power Module Offering at [www.Jameco.com/Prod/CrydomPower](http://www.Jameco.com/Prod/CrydomPower)

## crydom Auxiliary Modules



LPCV Series



PCV Series



RPC Series

### CPV Series Phase Control Module

- 120 & 240VAC models • 0-5VDC phase control

### LPCV Series Linear Proportional Load Controller

- 0-5VDC, 0-10VDC, 4-20mA input control modules
- Optically isolated

### PCV Series Analog Input Power Controller

- SCR output • 15-90 Amp
- 100-240V<sub>RMS</sub> • AC proportional output
- 2-7VDC and 2-10VDC

### RPC Series Solid State Proportional Controller

- SCR output • 15-40 Amp
- 120/240/480V<sub>RMS</sub> • AC proportional output
- 500k or 1M $\Omega$  potentiometer control

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Auxiliary Modules Offering at [www.Jameco.com/Prod/CrydomAux](http://www.Jameco.com/Prod/CrydomAux)

## Relay Socket with Coil Diode

### VF4 Type

- 12 AWG: 2 black & 1 blue wire;
- 18 AWG: 1 black & 1 red wire
- Contact voltage/current: 12V/20A
- Use with P/N 148582CM, pg. 200
- Diode coil suppression
- 7.5" wire



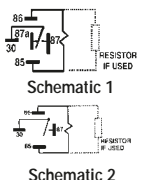
Part No.	Product No.	1	10	50
454571CM	G7L-1A-TUB-CB-DC24 ...	\$9.95	\$8.95	\$8.05

Part No.	Cross Ref. No.	1	10	50	100
170624CM	RSD03	\$2.35	\$2.15	\$1.89	\$1.55

## Potter & Brumfield Equivalent Plastic Enclosed Construction Relays

### VF4 Type

- Dielectric strength: 500VDC (between contact & coil)
- Operating temperature: -35°C to +85°C
- Contact current: 40A • Terminal type: quick connect
- Coil voltage: 12VDC except P/N 171521CM (5VDC)
- Normally open (NO), normally closed (NC)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



171432CM (Fig. 1)



171441CM (Fig. 2)



171459CM (Fig. 3)

Part No.	Cross Ref. No.	P&B Cross Ref. No.	Fig.	Contact Form	Coil Ohms	Contact Schematic	Contact Voltage	Pins	Pricing			
									1	10	50	100
171459CM	LD1A-12F	VF4-81F11S01	3	SPST-NO	78	2	14VDC	4	\$1.89	\$1.75	\$1.55	\$1.29
171441CM	961A-1A12D	VF4-11F11	2	SPST-NO	90	2	14VDC	4	2.35	2.20	2.14	2.09
171521CM	LD5F	VF4-45D11	1	SPDT	14	1	5VDC	5	1.69	1.35	1.08	1.05
148582CM	LD12F	VF4-85F11	1	SPDT	78	1	12VDC	5	2.49	2.25	1.95	1.75
171432CM	961A-1C-12DM	VF4-81F11	1	SPDT	90	1	12VDC	5	2.99	2.69	2.25	1.65

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## PB PRD Series Heavy Duty Open Relay

- SPDT • Voltage: 120VAC
- Contact rating: 25A @ 277VAC
- Current: 85mA
- Nominal power: -9.8W @ 25°C
- Resistance: 290 $\Omega$
- Expected life: 100,000 operations at rated load
- Auxiliary snap action switch rating: 5A @ 120VAC, 60Hz
- Initial breakdown voltage: 2,000V<sub>RMS</sub> min. between all elements and ground



Part No.	Product No.	1	10	25
282520CM	PRD-5AY0-120	\$20.85	\$20.08	\$19.31

To Find Additional P&B Relays, Visit Our Website at [www.Jameco.com/Prod/PBOpen](http://www.Jameco.com/Prod/PBOpen)

## PB Power PC Board Relays



T9A Series



T90 Series



T92 Series

### T9A Series DC Coil

- Up to 30 amp switching in SPST & 20 amp in SPDT arrangements • Voltage: 5 to 110VDC
- Nominal coil power: 1.0W or 900mW (approx.)
- Maximum coil power: 2.8W

### T90 Series DC Coil

- Up to 30 amp switching in SPST & 20 amp in SPDT arrangements • Voltage: 5 to 110VDC
- Max. coil power: 2.8 Watt

### T92 Series DC Coil

- 30A DPST-NO and DPDT switching capabilities
- Designed to control compressor loads to 3.5 tons, 25.3 FLA, 110 LRA
- Voltage: 12-110VDC & 12 to 277VAC

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete P&B Power PC Relays Offering at [www.Jameco.com/Prod/PBPowerPCB](http://www.Jameco.com/Prod/PBPowerPCB)

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!



## Small High-Current PC Mount Relays

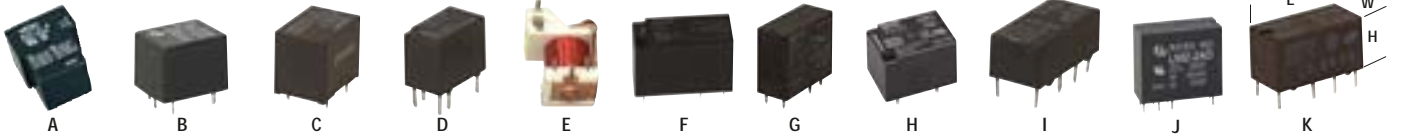
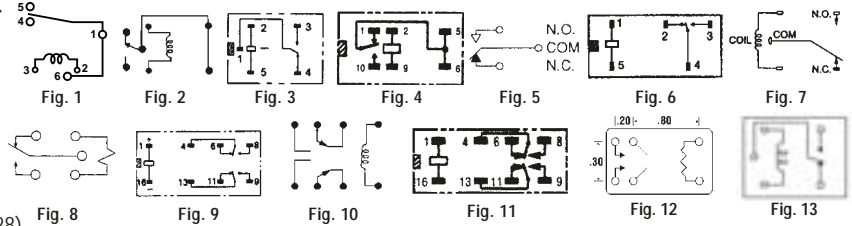
While these small, low-cost relays are designed primarily for the appliance industry and the heating, air conditioning and ventilation markets, they are also well suited for automotive load management and other applications.















- Mechanical life expectancy: 10 million operations
- Electrical life expectancy: 100,000 operations at rated loads
- Dielectric strength: 1500Vrms (between contact and coil)

**104926CM:** Open frame relay

**129349CM:** Immersion cleanable, plastic sealed case

**144186CM:** For use with universal relay card (P/N 128910CM, pg 328)






Part No.	Cross Ref. No.	Manufacturer	Potter & Brumfield Cross Reference	Fig.	Contact Form	Coil Voltage	Coil (Ohms)	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing			
												1	10	50	100
145752CM	L90A-12W 	Rayex	T90S1D12-12	1A	SPST	12VDC	155	240VAC	30A	5	1.2 x 1.0 x .77	\$2.45	\$2.10	\$1.85	\$1.49
134949CM	L90-5W 	Rayex	T90S5D12-5	1A	SPDT	5VDC	27	240VAC/28VDC	20A	6	1.3 x 1.1 x .80	2.49	2.15	1.93	1.65
174449CM	LU-5 	Rayex	T81H5D215	2B	SPDT	5VDC	125	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	1.79	1.66	1.55	1.49
187151CM	G5LE-1DC5 	Omron	—	3C	SPDT	5VDC	63	120VAC/30VDC	10A/8A	5	.90 x .65 x .75	1.49	1.30	1.15	1.09
187240CM	G5V-1-DC5 	Omron	—	4D	SPDT	5VDC	166.7	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.05	1.79	1.59	1.50
104926CM	733SPDT12VDC 	Song Chuan	T90N5D12-12	1E	SPDT	12VDC	155	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	1.85	1.69	1.49	1.27
129349CM	832-IC-S 	Song Chuan	T90S5D12-12	1A	SPDT	12VDC	155	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	2.15	1.90	1.69	1.39
664309CM	JW1FSN-DC12V	Nais (Aromat)	—	5F	SPDT	12VDC	270	250VAC/30VDC	10	5	1.13 x .51 x .79	1.89	1.70	1.49	1.29
186669CM	G2R-14-DC12 	Omron	—	6G	SPDT	12VDC	275	250VAC/30VDC	10A	5	1.2 x .51 x 1.0	2.99	2.85	2.69	2.67
172937CM	JS1-12V	Nais (Aromat)	T72M5D121-12	7H	SPDT	12VDC	400	125VAC/24VDC	10A/5A	5	.85 x .62 x .63	1.09	.99	.89	.75
144186CM	JZC-22F 	Velleman	VR15M121C	8B	SPDT	12VDC	337	120VAC/28VDC	15A	5	.80 x .64 x .80	3.79	3.39	3.05	2.75
174431CM	LEG-12F 	Rayex	T7CS5D12	8B	SPDT	12VDC	400	120VAC/24VDC	15A	5	.76 x .62 x .60	1.49	1.29	1.19	1.09
184461CM	G5V-1-DC12 	Omron	—	4D	SPDT	12VDC	960	125VAC/24VDC	.5A/1A	6	.50 x .30 x .40	2.39	1.93	1.71	1.63
187282CM	G6A-234PSTUSDC5 	Omron	—	9I	DPDT	5VDC	125	125VAC/30VDC	.3A/1A	8	.80 x .33 x .40	3.95	3.63	3.33	3.07
174377CM	LM2-12D 	Rayex	RKA5DZ12	10J	DPDT	12VDC	270	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	2.49	2.25	1.95	1.75
187258CM	G5V-2-DC12 	Omron	—	11K	DPDT	12VDC	288	125VAC/30VDC	.5A/2A	8	.81 x .40 x .45	2.49	2.28	2.02	1.82
200740CM	G5V-2-H1-24	Omron	—	11K	DPDT	24VDC	2800	125VAC/24VDC	.5A/1A	8	.81 x .40 x .45	2.29	2.06	1.85	1.65
215909CM	RKA-7DZ-12	P & B	—	12G	DPST-NO	12VDC	270	250VAC/24VDC	5A/5A	6	1.16 x .57 x 1.05	2.29	1.95	1.69	1.39
454563CM	LT1C12DC9	Hasco	—	13B	SPDT	9VDC	225	120VAC/28VDC	12	5	0.73 x .59 x 0.61	2.29	1.95	1.69	1.39

\*Manufacturer may vary

## General Purpose Relays




### LB2 Series

- Contact rating: 240VAC/30VDC @ 12A • DPDT
- Mechanical life: 10,000,000 operations • 8-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	50	100
172718CM	LB2-12DS 	K10-11D15-12	12VDC	\$4.99	\$4.49	\$3.99	\$3.59
175564CM	LB2-24DS 	K10-11D15-24	24VDC	\$5.99	5.49	4.93	4.49
175572CM	LB2-110AS 	K10-11A15-120	110VAC	6.25	5.49	4.99	4.39



### LB4H Series

- Insulation resistance: 1,500MΩ @ 500VDC
- Mechanical life: 10,000,000 operations • 4PDT
- Contact rating: 240VAC/30VDC @ 5A • 14-pin
- Electrical life: 100,000 operations min. at rated load

Part No.	Mfg. P/N	P & B Cross Ref.	Coil Voltage	1	10	25	50
291506CM	LB4H-12DS 	KHAU-17D12-12	12VDC	\$4.45	\$4.33	\$4.20	\$4.03
175601CM	LB4H-24DS 	KHAU-17D12-24	24VDC	5.09	4.93	4.77	4.36
175610CM	LB4H-110AS 	KHAU-17A12-120	110VAC	4.69	4.58	4.47	4.24


### Relay Socket

- DIN rail snap socket for LB2 & LB4H relays

Part No.	Mfg. P/N	P & B Cross Ref.	Pins	1	10	50
175530CM	PTF-08A-A 	27E895	8	\$5.95	\$5.39	\$4.85
175556CM	PYF-14A-A 	27E894	14	3.95	3.49	2.95

## KHAU Type Relay


- Insulation resistance: 1,500MΩ @ 500VDC • 4PDT • 14-pin
- Life: (mechanical) 10,000,000 operations; (electrical) 100,000 operations min. at rated load • Contact rating: 220VAC/24VDC @ 5A

Part No.	Cross Ref. No.	P & B Cross Ref.	Coil Voltage	1	10	25	50
183011CM	GM4PDT12DF 	KHAU-17D12-12	12VDC	\$7.59	\$6.99	\$6.64	\$5.51





## Beta Electric General Purpose Relays



### Pin Type Terminals

- DPDT • 8-pin octal style plug 
- Contact rating: 120/240VAC, 28VDC @ 10A
- Ambient operating temp.: -10°C to +50°C
- Size: 1.4"L x 1.4"W x 2.7"H

### BTA1 Series Relays

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139766CM	BTA1-2C-12VDC 	R02-11D10-12	12VDC	\$9.49	\$8.55	\$7.69
139740CM	BTA1-2C-120VAC 	R02-11A10-120	120VAC	9.95	8.79	7.99


### BTA1 Series Sockets (250 VAC, 20 Amps)

Part No.	Product No.	Pins	Dimensions	1	10	50
141145CM	PF-083A 	8	2.0"L x 1.6"W x 0.8"H	\$3.99	\$3.65	\$2.99
141153CM	PF-113A 	11	2.0"L x 1.7"W x 1.2"H	5.19	4.67	4.11

### BTA2 Series Quick Connect Blade Terminal

Flat terminals (0.187" x 0.020") for standard plug-in mounting; also accepts quick-connect receptacles or direct soldering.

- Contact rating: 120VAC/28VDC @ 13A; 240VAC @ 10A
- Ambient temperature operating: -30°C to +50°C
- Size: 1.5"L x 1.4"W x 2.2"H • 3PDT • 11-pin

Part No.	Product No.	NTE Cross Ref.	Coil Voltage	1	10	50
139854CM	BTA2-3C-24VDC 	R10-14D10-24	24VDC	\$8.69	\$8.63	\$8.39

## Commercial Customers

Open an account with us to consolidate your monthly billing and to save time.

# Solid State & DIP Relays



RoHS Compliant Product  
RoHS Also Available

Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave

## DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware
- Photo isolation
- Metal mounting base
- Zero crossing



176698CM  
(Fig. 1)



153058CM  
(Fig. 2)



192815CM  
(Fig. 3)



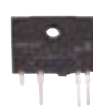
162341CM  
(Fig. 4)



176735CM  
(Fig. 5)



187004CM  
(Fig. 6)



164996CM  
(Fig. 7)



127790CM  
(Fig. 8)

Part No.	Product No.	Mfr.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size L" x W" x H"	Pricing			
													1	10	50	100
Solid State Relays DC/AC Type																
164988CM	S101S02	Sharp	1.2VDC@20mA	DC/AC	SPST	125VAC	1.5A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	\$3.95	\$3.49	\$2.95	\$2.25
164996CM	S202TA1	Sharp	1.2VDC@20mA	DC/AC	SPST	200VAC	2.0A	4	7	Solder Lead	UL/CSA	0.9 x .16 x .63	4.95	4.49	4.05	3.65
153058CM	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	9.95	8.95	7.95	7.25
162341CM	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.95	14.39	12.95	11.65
162368CM	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	21.95	19.79	17.79	16.05
162405CM	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	1.7 x 1.1 x 2.3	22.99	20.69	18.69	16.79
105081CM	615-8500	Teledyne	5-10VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	1.7 x 1.1 x 2.3	15.99	14.39	12.99	11.69
192815CM	KSD240AC8	COSMO	4-32VDC	DC/AC	SPST	250VDC	40A	4	3	Screw Terminal	—	1.8 x 0.6 x 2.3	18.99	17.32	15.75	14.99
175214CM	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	5.95	5.69	5.32	5.05
127790CM	D2W202F	Crydom	3-32VDC	DC/AC	SPST	280VAC	2A	4	8	Solder Lead	UL/CSA	1.7 x 0.4 x 1.3	7.19	6.75	6.73	6.71
176698CM	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	9.99	8.99	7.99	7.19
176719CM	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	19.99	17.99	16.19	14.59
176735CM	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	1.7 x 0.9 x 2.3	39.95	35.99	32.39	29.15
204441CM	TD2420Q	Crydom	4-15VDC	DC/AC	4PST	280VAC	20A	13	—	Solder Lead	UL/CSA	2.3 x 1.8 x 0.9	56.95	51.25	43.59	32.69
186992CM	G3NA-210B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	10A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	14.29	13.55	12.89	12.25
187004CM	G3NA-220B-DC5-24	Omron	5-24VDC	DC/AC	SPST	240VAC	20A	4	6	Screw Terminal	UL/CSA	1.7 x 1.1 x 2.3	19.95	17.95	15.95	13.95
Solid State Relays DC/DC Type																
172591CM	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	\$9.95	\$8.95	\$7.95	\$6.95
175222CM	KF0604D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	11.95	11.25	10.25	9.22
176647CM	KG1005D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	5A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	26.99	24.29	21.79	19.59
176655CM	KG1010D	Kyoto	3-32VDC	DC/DC	SPST	120VDC	10A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	29.99	26.99	24.29	21.89

▲ Pull = Extra Savings

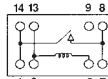
● Blue Part No. = Limited Quantity Available

## DIP Relays

- Logic control levels
- Long life with reliable operation
- Moisture resistant
- Compatible with IC sockets
- Compact design/construction
- Excellent for PCB applications



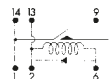
106462CM



Schematic 1



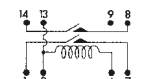
99901CM



Schematic 2



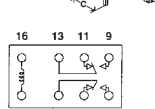
206543CM



Schematic 3



Fig. 1



Schematic 4

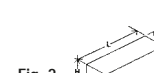
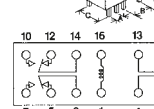


Fig. 2



Schematic 5

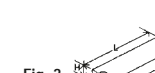
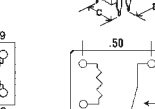


Fig. 3



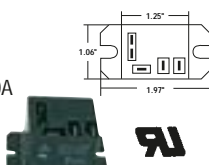
Schematic 6

Part No.	Product No.	Manufacturer	Contact Schem.	Contact Form	Coil Voltage	Coil Ohms	Contact Voltage	Contact Current	Pins	Jameco Socket	Fig.	Size L x W x H (in.)	Leads A x B x C (in.)	Pricing			
														1	10	50	100
106462CM	201A05	Excel Cell Elect.	1	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	\$2.15	\$1.81	\$1.52	\$1.25
138430CM	2D1A05	Excel Cell Elect.	2	SPST-NO	5VDC	500	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.29	1.95	1.65	1.34
215896CM	OJE-SS-109LMF	OEG	6	SPST-NO	9VDC	400	250VAC/30VDC	3A/3A	4	—	1	.71 x .39 x .57	.50 x .60 x .30	2.29	1.95	1.69	1.39
106472CM	201A12	Excel Cell Elect.	1	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.29	1.95	1.65	1.39
138448CM	2D1A1200	Excel Cell Elect.	2	SPST-NO	12VDC	1000	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456CM	202A05	Excel Cell Elect.	3	DPST-NO	5VDC	140	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	3.49	3.15	2.69	2.19
139977CM	RSB5S	Shin Mei	4	DPDT	5VDC	125	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
99311CM	DS2Y-S-DC12V	Aromat (NAIS)	4	DPDT	12VDC	720	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.31	2.05	1.75
99901CM	LX200D00	Clare	4	DPDT	12VDC	720	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	6.95	6.25	5.63	4.49
99320CM	LM12E00	NEC	4	DPDT	24VDC	1110	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.95	2.69	2.39	2.15
136549CM	DS4E-M-DC5V	Aromat	5	4PDT	5VDC	62.5	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.49	4.95	4.45	4.05
206543CM	DS4E-S-DC5V-1C-N137	Aromat	5	4PDT	5VDC	125	250VAC/220VDC	2A	14	112299	2	1.40 x .40 x .42	.20 x .30 x .30	3.79	3.45	3.15	2.85
176313CM	DS4E-M-DC12V	Aromat	5	4PDT	12VDC	360	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.29	5.29	4.39

## T9A Series Relay

### Low Cost PC Board or Panel Mount Only

- Contact form: SPDT
- Contact voltage: 12VDC
- Contact volt.: 240VAC/28VDC
- Terminal type: 0.1" disconnect (2); 0.25" disconnect (3)
- Contact current: 20A/10A
- 5-pin
- Coil: 155Ω



Part No.	Cross Ref. No.	P & B Cross Ref.	Dimensions (LxWxH)	1	10	50	100
137357CM	953-IC-12DM	T9A5D52-12	2.0" x 1.6" x 1.8"	\$2.55	\$2.45	\$2.19	\$1.75

**SALE**

## Reed Type Relay

- Manufacturer: Bestar
- Coil voltage: 12VDC
- Dielectric strength: 1500VDC (between contact and coil)
- 4-pin
- Operating temperature: -30°C to +60°C
- Contact form: SPST-NO
- Coil: 1050Ω
- Contact voltage: 120VAC/60VDC
- Contact current: 0.1A
- Contact current: 0.1A
- Terminal type: PCB solder



Part No.	Cross Ref. No.	Dimensions	1	10	50	100
111448CM	RC108T	1.0"L x .37"W x .38"H	\$ .98	\$ .89	\$ .81	\$ .74

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 1.2" (30mm) PCB Mountable Speaker

- Round frame design
- Mylar diaphragm
- Output SPL: 82 dB
- Nominal input: 0.15W; max. input: 0.2W
- Ideal for PC board mounting
- Impedance: 8Ω
- Frequency range: 700 – 5000Hz
- Pin spacing: 15mm

Part No.	Cross Ref. No.	Description	Dimensions	1	10	100
135722CM	PCM415	Solder leads	1.2"Dia. x 0.5"D	\$2.15	\$1.79	\$1.59



## Speaker Terminals

Make a solid connection with these push-release speaker terminals. Color-coded red/black connections for positive & negative side of speakers, screwmount plates for easy installation.

- Requires 1.92" round cut-out for recessed mounting



Part No.	Description	Size	Price
318641CM	Round speaker terminals	2.95" diameter	\$ .43

## Round Ferrite Speakers

- 320135CM: with 2" lead wires
- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
320362CM	TRF-050F	2.0 x 0.7	0.25	0.5	8	86	320 – 4000	1.3 x 0.4	\$1.95	\$1.51	\$1.33
135589CM	FE200	2.0 x 0.7	0.2	0.4	8	83	420 – 5000	1.3 x 0.4	1.59	1.33	1.09
320135CM	C35128A	2.0 x 0.7	0.2	0.4	8	—	—	1.3 x 0.4	1.59	1.35	1.01
308267CM	GA0501M	2.0 x 0.8	0.25	0.5	8	85	500 – 7800	0.9 x 0.4	1.99	1.79	1.65
10840CM	FE201	2.2 x 0.7	0.2	0.4	8	88	400 – 4500	1.3 x 0.4	1.59	1.43	1.07
320354CM	TR-066F	2.6 x 0.9	0.25	0.5	8	85	440 – 3500	1.3 x 0.4	1.45	1.24	1.14

For speaker wire, see page 104



135589CM Side



135589CM Back

## Square Ferrite Speakers

- Pre-tinned speaker lugs
- Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
135693CM	FEB200	2.0 x 0.7	0.2	0.3	8	82	500 – 6000	1.3 x 0.5	\$1.59	\$1.45	\$1.29
249463CM	66SF25	2.6 x 0.8	—	0.5	25	10	320 – 4000	1.3 x 0.5	2.49	2.09	1.59
31958CM	FEB216	2.6 x 0.8	0.2	0.4	16	85	330 – 8000	1.3 x 0.5	2.25	1.99	1.79
99995CM	FEB204	2.6 x 0.9	3.0	4.0	4	95	300 – 14000	1.8 x 0.5	2.49	2.25	1.99



99995CM Side



99995CM Back

## Flat Element, Square Piezoelectric Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

Part No.	Mfg. P/N	Dimensions (Dia. " x D")	Input		Impedance (Ω)	Output SPL (dB)	Frequency Range (Hz)	Element Size (Dia. " x H")	Pricing		
			Nom (W)	Max (W)					1	10	100
34024CM	AZ30S	1.2 x 0.2	0.4	0.8	8	70	1300 – 8000	1.2 x 0.1	\$1.69	\$1.52	\$1.35
76030CM	AZ40S	1.6 x 0.2	0.4	0.8	8	70	600 – 6000	1.6 x 0.1	1.95	1.75	1.49
673766CM	AZ50S	1.9 x 0.2	0.4	0.8	8	70	500 – 6000	1.9 x 0.1	2.49	2.25	1.95



34024CM Side



34024CM Back

## Alnico Speakers

- For computer case use
- Paper diaphragm
- Wide frequency response
- Pre-tinned solder lugs
- Large magnet
- Impedance: 8Ω

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
88410CM	A0200	1	2.0 x 0.8	0.2	0.4	87	430 – 4500	0.5 x 0.4	\$1.49	\$1.29	\$1.19
684730CM	A0202C	1	2.6 x 0.9	0.5	1.0	88	350 – 5000	0.9 x 0.5	1.89	1.69	1.49
135765CM	RA2425	1	2.2 x 0.8	0.25	0.5	87	400 – 4000	0.5 x 0.4	1.89	1.69	1.52
111587CM	B0102	2	1.7 x 0.6	0.1	0.3	83	500 – 5500	0.5 x 0.4	2.09	1.69	1.39
135811CM	A1527C02	3	1.6 x 2.8 x 1.2	2.0	5.0	82	450 – 20000	0.5 x 0.5	2.95	2.49	2.25



Fig. 1



Fig. 2



Fig. 3

## Micro Speakers

Quantity SAVE

Part No.	Mfg. P/N	Fig.	Dimensions (Dia. " x D")	Input		Output SPL (dB)	Frequency Range (Hz)	Magnet Size (Dia. " x H")	Pricing		
				Nom (W)	Max (W)				1	10	100
355514CM	GC0201M	1	1.70 x 0.38	0.1	0.2	78	500 – 20000	0.26 x 0.06	\$1.39	\$1.22	\$1.18
307871CM	GC0401M	1	1.57 x 0.67	0.2	0.3	80	600 – 8000	0.71 x 0.43	2.89	2.46	1.84
355522CM	GF0271M	1	1.06 x 0.30	0.1	0.2	82	500 – 20000	0.49 x 0.15	2.29	2.04	1.86
307854CM	GC0251KP*	2	1.0L x 0.55W	1.0	1.5	80	750 – 3500	0.43 x 0.08	1.85	1.57	1.18

\* Rectangular micro speaker



Fig. 1



Fig. 2

## Omni-directional Electret Condenser Microphone Cartridges

### Applications:

- Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors
- Modems for computers
- Used for recording, testing, and monitoring



160979CM



136573CM & 320178CM



320004CM





196488CM



140986CM

Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	Pricing			
												1	10	100	1000
160979CM	WM-64PKT	-44 ±3dB	>2.2kΩ	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	\$ .72	\$ .65	\$ .52	\$ .35
136573CM	WM-60PC	-54 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.53	.48	.43	.39
320004CM	YILI	-38 ±3dB	>2.2kΩ	20-16,000	10V	4.5V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.23" x .38"	.69	.62	.32	.24
320178CM	EM-99	-64 ±2dB	>2.2kΩ	20-12,000	12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.27" x .39"	1.49	1.25	.99	.81
196488CM	JL-061C	-58 ±3dB	2kΩ	20-20,000	10V	2.0V	0.04mA	-3dB @ 1.5V	>55dB	Solder pad	.10" x .24"	1.29	.99	.89	.79
140986CM	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	12V	3.0V	0.8mA	-3dB @ 3V	>40dB	Lead wires	.90" x .39"	1.49	1.14	1.05	.89

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Sonic Transducers and Buzzers

NEW

A Jameco  
EXCLUSIVE

Magnetic Transducers • Applied voltage: 1/2 duty, square wave

Part No.	Cross Ref. No.	Fig.	Operating Volt. (Vp-p/mA)	Volt. Range (Vp-p)	Freq. (Hz)	Sound (dB)	Dimensions	Pricing			
								1	10	100	1000
207917CM	DB105GFPN	1	1.5/30	1 – 2	2048	75	.22"H x .47"Dia.	\$1.49	\$1.34	\$1.14	\$1.85
138721CM	DB111A-PN	2	1.5/10	1 – 2	2048	80	.32"H x .46"Dia.	1.49	1.34	1.14	.85
335644CM	PB-12N23P-12	3	12/50	9 – 15	2300	85	10mm H x 12mm Dia	2.69	2.59	2.50	2.18
138739CM	DBX05-PN	2	5/40	3 – 8	2400	85	.35"H x .46"Dia.	1.49	1.35	1.19	.99
106500CM	SBT-1205	2	5/40	3 – 8	2400	85	.40"H x .48"Dia.	1.49	1.35	1.25	1.09
207950CM	UDX05CPN	3	5/100	4 – 8	3100	85	.22"H x .35"Dia.	1.35	.99	.92	.83
Other Manufacturers — Great Deals											
673918CM	SEP-1162	4	20/7	—	4000	80	.28"H x .55"Dia.	\$1.95	\$ .99	\$ .92	\$ .83
673926CM	SEP2202A	5	3-20/11	3 – 20	3000	85	.64"H x .96"Dia.	2.75	2.49	1.95	1.49
673871CM	PRT-1205	2	5/40	3 – 8	2400	90	.35"H x .46"Dia.	2.65	2.51	2.42	2.09

### Magnetic Buzzers

207984CM	TDB01	6	1.5/30	1.25 – 2	2300	75	.47"H x .38"Dia.	\$2.49	\$2.29	\$1.99	\$1.79
76064CM	TDB05-PN	6	5/30	4 – 7	2300	85	.35"H x .46"Dia.	2.99	2.79	2.69	2.59
207976CM	TDB12	6	12/30	8 – 15	2300	85	.47"H x .38"Dia.	2.49	2.39	2.29	2.19
Other Manufacturers — Great Deals											
673774CM	SBT-1612	7	12/40	6-18	2048	85	.53"H x .62"Dia.	\$2.09	\$1.89	\$1.65	\$1.39

### Piezo Buzzers

336276CM	PT-1250W	8	3/1.5	2 – 5	1250	85	13mm H x 30mm Dia.	\$1.55	\$1.49	\$1.37	\$1.24
337210CM	SC628D	9	6-28/5-18	6 – 28	1900	75	1.28"H x 1.69"Dia.	10.45	9.72	9.09	8.54
336022CM	PK-27N26W	10	12/15	3 – 28	2500	90	10mm H x 30mm Dia.	3.49	3.39	3.24	2.99
335505CM	MAS800	11	12/50	9 – 12	2800	103	15.2mm H x 26mm Dia.	4.95	4.62	4.19	3.84
335530CM	MAS806	11	12/50	5 – 14	2800	103	15.2mm H x 26mm Dia.	5.85	5.55	5.44	5.05
336663CM	SC105	9	1-5/3-16	1 – 5	2900	75	1.28"H x 1.69"Dia	10.95	10.04	9.01	8.57
337535CM	SNP428	12	4-28/3-16	4 – 28	2900	76	.85"H x 1.64"Dia	9.35	8.63	8.00	7.48
336639CM	SBM616PU	13	6-16/3-12	6 – 16	2900	78	.62"H x 1.69"Dia	14.99	14.39	13.69	12.83
123537CM	11D3240	14*	24/20	4 – 28	2900	80	1.4"H x 1.7"Dia.	4.19	3.79	3.65	3.49
337383CM	SC628P	9	6-28/4-16	6 – 28	2900	80	1.84"H x 1.69"Dia	15.69	14.31	13.17	12.23
337359CM	SC628N	9	6-28/4-16	6 – 28	2900	90	1.28"H x 1.69"Dia	11.99	10.99	9.86	9.39
32601CM	11S3240	14	24/15	1 – 28	2900	95	1.4"H x 1.7"Dia	4.95	4.45	4.29	4.09
336989CM	SC616N	9C	6-16/6-22	6 – 16	2900	95	1.28"H x 1.69"Dia	11.69	10.66	9.81	9.10
336997CM	SC616NJ	9S	6-16/6-22	6 – 16	2900	95	1.28"H x 1.69"Dia	17.69	16.21	14.56	13.85
335556CM	MSR320	15	3-20/3-16	3 – 20	3400	80	.39"H x .91"Dia	2.55	2.38	2.16	1.98
76021CM	7S3240-LA	16	24/20	1.5 – 28	3200	95	1.0"H x 1.1"Dia	4.99	4.69	4.49	4.29
335695CM	PF-20A35EW	16F	12/10	3 – 28	3500	95	25mm H x 28mm Dia	5.09	4.89	4.77	4.59
207992CM	SL15R3120LA	17	12/250	6 – 16	3500	105	2.3"L x 1.8"W x 1.6"H	6.95	6.29	5.99	5.75
336313CM	PT-2038FW	5	12/8	3 – 28	3800	85	4.5mm H x 24mm Dia.	1.15	1.09	1.05	.95
335927CM	PK-20A38P	3	12/15	3 – 24	3800	95	18mm H x 23mm Dia.	3.55	3.39	3.26	2.99
335564CM	MSR516N	3	5-16/3-14	5 – 16	3850	86	.39"H x .91"Dia.	3.99	3.79	3.43	3.15
138712CM	32S4120-PN	6	12/7	3 – 16	4000	80	.30"H x .54"Dia.	2.49	2.25	2.09	1.56
196375CM	AL-175	6	12/5.8	3 – 16	4000	86	.30"H x .54"Dia.	2.99	2.69	2.35	2.06
335855CM	PK-12N40P	3	12/10	3 – 15	4100	83	8mm H x 14mm Dia.	3.29	3.07	3.05	2.69
Other Manufacturers — Great Deals											
454521CM	MSR3205	15	20/16	3 – 20	3400	80	.39"H x .91"Dia.	\$6.99	\$2.14	\$1.94	\$1.78
673900CM	SEP-1172	18	3-28/7	3 – 28	3300	81	.62"H x 1.27"Dia.	1.95	1.75	1.29	.99

\* Dual tone C = Continuous tone S = Slow pulse F = Fast pulse

### Mechanical/Electromechanical Buzzers

24871CM	63S109LA	19	9/30	6 – 12	400	75	1.3"L x 0.7"W x 0.6"H	\$2.49	\$2.19	\$1.99	\$1.79
140695CM	63S1120-LA	19	12/25	9 – 15	400	75	1.3"L x 0.7"W x 0.6"H	1.99	1.79	1.69	1.59

### Piezo Sirens

336188CM	PS-520	17	12/200	5 – 15	3000	105	40mm W x 57.5mm D x 44.5mm H	\$8.99	\$8.75	\$8.05	\$7.34
207888CM	18R3120	20	12/120	9 – 15	1500-3100	105	3.4"L x 2.2"W x 1.3"H	5.99	5.79	5.49	5.29
336225CM	PS-562	21	12/40	5 – 15	2500/3500	100	16mm H x 42mm Dia	5.05	4.92	4.53	4.13

### Surface Mount Electromechanical Buzzers

335388CM	AST500	22	1.5/50	1.2 – 3	2400	85	12.8mm Sq. x 10mm H	\$2.95	\$2.85	\$2.72	\$2.48
335417CM	AST605	22	5/40	4 – 8	2400	87	12.6mm Sq. x 7mm H	2.29	2.28	2.27	2.16
335345CM	ASI301	22	5/30	4 – 7	2400	90	12.6mm Sq. x 10mm H	2.99	2.78	2.59	2.24
335353CM	ASI401	22	12/30	8 – 15	2400	90	12.6mm Sq. x 10mm H	1.79	1.75	1.63	1.49



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

## 24VDC Liquid Level Sensor

Combine the control box and sensor to activate a water valve. When sensor is triggered by a tank in either full or empty condition, it will trigger an output status change.

- Empty type
- Diameter: 1.0"
- Overall Length: 3.9"
- Travel Distance: 2.0"



Part No.	Description	1	10	25
176250CM	Sensor empty type	\$7.39	\$6.70	\$6.09

## Fujikura -1.1 to 2.5 PSI Pressure Sensor

- Measurable pressure range: -1.1 to 2.5 PSI
- Maximum load pressure: twice rated pressure
- Operating volt.: 5V @ <10mA
- Maximum excitation voltage: 8V
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- On-chip amplification and temp. compensations
- Pre-calibration of offset voltage and span
- 1/8" diameter tubing is applicable
- Size: .55"L x .47"W x .20"H



Part No.	Product No.	1	10	100
196103CM	XFPN-025-KPGRNW1	\$24.95	\$21.25	\$15.95

## 0 to 1.45 PSI Pressure Sensor

- Typical full scale span @ 35mV: 0-10kPa (0-1.45 PSI)
- Maximum pressure (P<sub>MAX</sub>): 75kPa (10.875 PSI)
- Operating volt. (typical): 3VDC @ 6mA
- Applications: air movement control, level indicators, leak detection, robotics and industrial controls
- Size: 0.7"Dia. x 0.78"Thick (with nozzle)



Part No.	Product No.	1	10	100
218827CM	MPX10GS	\$8.99	\$7.99	\$7.19

## Making Sense of Sensors

Choosing proximity switch sensors may seem like a trivial process... but the implications can be crucial to your product's success.



For instance, the maximum distance spec'd between the magnet and sensor may significantly affect a product's performance. Too great a distance and a burglar can defeat an alarm trigger. Too little a distance and the installer cannot adequately position the components.

Make sure you fully understand your application, the users and those that benefit from the product. Then make sure you spec your equipment to best meet their needs. At the end of the day, your business will benefit.

## Practical Practices

Money Saving Tips for the Engineer

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## Inductive Proximity Switch Sensors

Cylindrical and Square Styles

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Switching frequency: 1.5kHz
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short circuit protected
- Pre-tinned pigtail
- Fast response
- LED status indicator
- 6' long cable



Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia.)	Mounting Hole (in.)	Pricing		
							1	10	25
155547CM	S18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.4"Lx1.4"Wx0.7"H	0.112	\$9.95	\$8.95	\$7.95
167020CM	TS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	20.65	18.61	16.75
248858CM	TS12-02P-1	PNP	0-1.6mm	12 x 12 x 1	1.8" x 0.46"	0.46	19.99	17.99	15.99
155571CM	TS18-05N-1	NPN	0-4.0mm	18 x 18 x 1	1.6" x 0.70"	0.70	24.95	22.46	20.21
421147CM	CS12-02N-1	NPN	0-1.6mm	12 x 12 x 1	2.2" x 0.83"	0.67	24.69	22.22	20.00
421155CM	CS12-05N-1	NPN	0-0.4mm	12 x 12 x 1	2.4" x 0.88"	0.67	25.25	22.72	20.45
421163CM	CS18-05N-1	NPN	0-0.4mm	18 x 18 x 1	2.1" x 1.10"	0.95	30.95	27.83	25.05
421171CM	CS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.95	31.29	28.17	25.35
421180CM	CS30-10N-1	NPN	0-12mm	30 x 30 x 1	2.3" x 1.40"	1.40	34.95	31.45	28.30
421198CM	CS30-15N-1	—	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	42.09	37.89	34.10
421201CM	TS12-05N-1	NPN	0-4.0mm	12 x 12 x 1	2.5" x 0.80"	0.66	21.45	19.28	17.35
421219CM	TS18-08N-1	NPN	0-6.4mm	18 x 18 x 1	2.4" x 1.10"	0.94	26.95	24.26	21.83
421227CM	TS30-10N-1	NPN	0-8.0mm	30 x 30 x 1	2.4" x 1.40"	1.40	36.29	32.67	29.40
421235CM	TS30-15N-1	NPN	0-12mm	30 x 30 x 1	2.7" x 1.40"	1.40	36.79	33.11	29.80
421243CM	S17-05N-1	NPN	0-4.0mm	17 x 17 x 1	1.1" x 0.66"	0.98	13.59	12.22	11.00
421251CM	S25-07N-1	NPN	0-5.6mm	25 x 25 x 1	1.4" x 1.50"	0.98	24.75	21.12	19.01

## Photo Electric Sensors

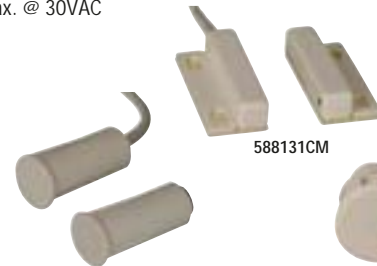
Part No.	Product No.	Output Circuit	Effec. Dist. (Iron)	Standard Target (Iron) (mm)	Size (L" x Dia.)	Mounting Hole (in.)	1	10	25
421260CM	WE-T3AD	NPN	0-5.0m	≥8mm Dia.	2.6" x 0.708"	.710	\$73.35	\$66.00	\$59.40
421278CM	WE-M3D	NPN	0-2.0m	>10-40mm Dia.	2.6" x 0.708"	.710	50.95	43.48	39.13
421286CM	WE-R3AL	NPN	0-200mm	—	2.6" x 0.708"	.710	49.19	42.00	37.80
421294CM	WE-R3BL	NPN	0-80mm	15-44mm	2.6" x 0.708"	.710	49.19	42.00	37.80
421307CM	WE-U3L	NPN	10-30mm	18-22mm	2.6" x 0.708"	.710	54.19	48.78	43.90

\* Dark-on † Light-on



## Magnetic Proximity Switch Sensors

- Contact rating: 3W max. @ 30VDC or 0.3A max. @ 30VAC
- Contact form: SPST NO
- Contact resistance: 100mΩ max. initial
- Operating temperature: -40°C to 100°C
- Dielectric strength: 200VDC min.
- Mechanical & electrical life: 10 million operations
- Housing/spacer/cover: ABS plastic (UL94V-0), white
- Reed switch: rhodium coated, hermetically sealed, nitrogen filled glass capsule
- Potting: epoxy
- Wire leads: UL1060 22AWG stranded wire, stripped, 12"L white
- Adhesive mounting: (MPS45WGW only) – foam backed, pressure sensitive



588182CM

**NEW**

588140CM

Part No.	Product No.	Description	1	10	100
588131CM	MPS45WGW	Subminiature surface mount, side exit leads, 1" make gap	\$9.25	\$8.48	\$7.27
588123CM	MPS20WGW	Standard surface mount, screw terminals, 1 1/2" make gap	10.59	9.71	8.32
588182CM	MPS9WGW	3/8" diameter panel mount, recessed magnetic contact, 1 1/2" make gap (switch and magnet)	8.35	7.64	6.55
588174CM	MPS95WGW	3/8" diameter panel mount, recessed magnetic contact, 1 1/2" make gap (switch)	7.45	6.78	5.82
588140CM	MPS70WGW	3/4" diameter panel mount, recessed magnetic contact, 1 1/2" make gap (switch and magnet)	8.95	8.20	7.03

## Ultrasonic Sensor Sets

- Use for motion or distance sensing
- Frequency: 40kHz  $\pm$ 1.0kHz
- Aluminum case

### 136653CM:

#### Transmit/Receive Set

- Capacitance: 2000pF  $\pm$ 30%
- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40 $\pm$ 1.0kHz
- Lead length/spacing: 0.39"
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40 $\pm$ 1.0kHz (R=3.9k $\Omega$ )
- Case size: 0.47"H x 0.62" Dia.



136653CM

### 139491CM: Transmit/Receive Set

- Capacitance: 2000pF  $\pm$ 20%
- Lead length/spacing: 0.28"
- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40  $\pm$ 1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40  $\pm$ 1.0kHz (R=3.9k $\Omega$ )
- Case size: 0.30"H x 0.43" Dia.



139491CM

Part No.	Mfg. P/N	1	10	50
136653CM	40TR16F	\$6.95	\$6.29	\$5.65
139491CM	40TR12B	6.95	6.29	5.65

## Latched Hall-Effect Sensor

- SP (south pole): on
- NP (north pole): off
- Supply voltage: 3-20V
- Supply current: 4mA
- Output current: 20mA
- Max. operating point:  $\leq$  130
- Max. release point (gauss):  $\leq$  130



Part No.	Cross Ref. No.	1	10	100	1000
174043CM	HI-300	\$ .95	\$ .86	\$ .77	\$ .59

## Digital Hall-Effect Proximity Sensors

### MP1021 Series

- Plastic flange-mount housing
- Supply current: 12mA max.
- Operating voltage range: 4.5-24VDC
- Output current: 25mA max.
- Output saturation voltage: 500mV max.



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our MP1021 Series Proximity Sensors Offering at [www.Jameco.com/Prod/CherrySensors](http://www.Jameco.com/Prod/CherrySensors)

## Actuator Magnet Speed and Proximity Sensor

- Aluminum housing
- Adjustable thread mounting stud
- Operating temp. range: -40°C to 150°C

NEW



482388CM

Part No.	Product No.	Description	1	10	100
482370CM	AS101001	South pole facing	\$4.89	\$4.34	\$3.61
482388CM	AS101002	North pole ... facing	3.65	3.45	3.28

We're committed to providing you with the best service in the industry.

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Industrial Grade Magnetic Proximity Sensors

NEW

### Solid State, Adjustable Threaded Housing

- Immune to hostile environments
- Reverse battery protection to -24VDC
- South pole sensitive
- Cable insulation: polyolefin
- Output: 3-wire sink
- Operating temp. range: -40°C to 125°C
- High speed capability
- Source or open collector output
- M12 integral connector
- Operating voltage range: 5-24VDC
- Output saturation voltage max.: 700mV
- SST housing



Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Cable/Connector	1	10	100
513210CM	MP100102	12	25	300	60	22AWG x 1m cable	\$34.39	\$25.46	\$23.56
513228CM	MP100502	10	24	25	1	12mm circular conn.	23.25	17.20	15.91



## Commercial Grade Magnetic Proximity Sensor

### Solid State, Adjustable Threaded Housing

- Anodized aluminum housing (black)
- Sourcing or open collector output
- M12 integral connector meets IEC 60947-5-2
- Output: 3-wire sink
- Operating voltage range: 4.75-24VDC
- High speed capability
- South pole sensitive
- Wire insulation: polyolefin
- Operating temp. range: -40°C to 125°C
- Output saturation voltage: 700mV max.

NEW



Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	1	10	25
513236CM	MP100701	12	25	300	60	20AWG x 1m	\$16.29	\$15.46	\$14.69



## Hall-Effect Magnetic Proximity Sensor

### With Snap-Fit Mount

- Solid state reliability
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Operating voltage range: 4.75-24VDC
- Output saturation voltage max.: 400mV
- Immune to dust, dirt, & moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Output: 3-wire sink
- Reverse polarity protection to -24V

NEW



Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Wire	1	10	25
513244CM	MP101301	4	25	300	60	24AWG x 1m	\$4.09	\$3.87	\$3.68



## Digital Hall-Effect Magnetic Proximity Sensor

### Low-Profile Flange Mount

- Capable of millions of operations
- Reverse battery protection to -24VDC
- Output saturation voltage max.: 400mV
- Applications: door position sensing, flow sensing, pedal switch
- Meets IEC529 IPX5 for water protection
- Output wire: 3-wire sink
- Operating voltage range: 4.5-24VDC

NEW



Part No.	Product No.	Supply Curr. Max. (mA)	Output Curr. Max. (mA)	Op. Point Gauss (max.)	Rel. Point Gauss (min.)	Function	1	10	25
513252CM	MP101401	5.2	20	185 (south)	60 (south)	Unipolar switch	\$3.85	\$3.63	\$3.45



## Magnetic Proximity Sensors

- Omnipolar, magnetically activated switch
- Can be approached by any magnet from any angle with either pole
- Hermetically sealed
- Contact resistance: 0.2 $\Omega$  max.
- Zero power consumption
- Breakdown voltage: 200VDC min.
- Operating temp. range: -40°C to 105°C

NEW



513279CM

513308CM

### Aluminum Threaded Housing

- Immune to hostile environments
- Suitable for AC/DC circuits

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	1	10	25
513279CM	MP200701	SPST NO	10	175	0.5	0.6	\$7.15	\$6.80	\$6.46
513287CM	MP200702	SPST NC	3	100	0.2	1.0	7.89	7.49	7.12
513295CM	MP200703	SPDT CO	3	100	0.2	1.0	12.45	11.06	9.22

### Cylindrical Plastic Housing

- Resistant to dirt and moisture

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	1	10	25
482396CM	AS201701	SPST NO	10	175	0.5	0.5	\$2.15	\$2.04	\$1.87
513308CM	MP201701	SPST NO	10	175	0.5	0.5	3.05	2.67	2.23
513316CM	MP201702	SPST NC	3	100	0.2	1.0	3.25	3.05	2.90
513324CM	MP201703	SPDT CO	3	100	0.2	1.0	3.55	3.36	3.19





## Reed-Based Magnetic Proximity Sensors

### Plastic Flange Mount

- Hermetically sealed contacts
- Contact resistance: 0.2Ω max.
- Zero power consumption
- Op. temp. range: -40°C to 105°C

### AS2018/MP2018 Series

- Moisture and dirt resistant

**NEW**



Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	1	10	25
482409CM	AS201801	SPST NO	10	175	0.5	0.6	\$2.25	\$2.14	\$1.99
513332CM	MP201801	SPST NO	10	175	0.5	0.6	3.29	2.92	2.44
513341CM	MP201802	SPST NC	3	100	0.2	1.0	4.95	4.41	3.67

### AS2019/MP2019 Series

- Immune to hostile environments
- Suitable for AC/DC circuits
- Breakdown voltage: 200VDC min.

Part No.	Product No.	Contact Form	Power (W)	Switching volt. Max. (VDC)	Switching Curr. Max. (A)	Op. Time Typical (ms)	1	10	25
482417CM	AS201901	SPST NO	10	175	0.5	0.6	\$3.25	\$2.85	\$2.38
513359CM	MP201901	SPST NO	10	175	0.5	0.6	2.85	2.66	2.53
513367CM	MP201902	SPST NC	3	100	0.2	1.0	5.25	4.64	3.86
513375CM	MP201903	SPST CO	3	100	0.2	1.0	3.99	3.79	3.60



## Gear Tooth Speed Sensor

### With Flange Style Plastic Housing

- Sense motion of ferrous gear tooth targets
- Near-zero speed sensing capability
- Immune to hostile environments: electrostatic discharge, electrical transients, radiated electric field, conducted energy, magnetic filed energy
- High speed capability
- Meets all IEC requirements for heavy industrial equipments
- Operating voltage range: 5-24VDC
- Supply current: 6mA max.
- Output saturation voltage: 400mV max.
- Output current: 4mA max.
- Output: sink • Cable: 22AWG x 1m



**NEW**

Part No.	Product No.	1	10	25
512410CM	GS101202	\$31.25	\$28.18	\$25.34



## Industrial Grade Gear Tooth Speed Sensors

### Hall-Effect with Adjustable Steel Housing

- Sense motion of ferrous gear tooth targets
- Near-zero speed sensing capability
- Immune from hostile environments
- Reverse battery protection to -24VDC
- Meets all IEC immunity from: electrostatic discharge, electrical transients, radiated electric field, conducted energy
- Operating voltage range: 4.5-24VDC
- Output saturation voltage: 700mV max.
- Output: sink
- Supply current: 6mA max.
- Output current: 25mA max.
- Operating temp. range: -40°C to 105°C



512372CM

Part No.	Product No.	Thread	Cable/Connector	1	10	100
512364CM	GS100101	M12-1	12mm circular conn.	\$53.85	\$39.54	\$36.80
512372CM	GS100102	M12-1	22AWG x 1m cable	40.05	38.00	35.15
512381CM	GS100201	M18-1	12mm circular conn.	37.25	35.39	33.01



## Commercial Grade Gear Tooth Speed Sensors

### Hall-Effect with Adjustable Aluminum Housing

- Sense motion of ferrous gear tooth targets
- Near-zero speed sensing capability
- Immune from hostile environments
- Reverse battery protection from 24VDC
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Output: sink
- Wire: 20AWG x 1m
- Output current: 25mA max.
- Operating temp. range: -40°C to 125°C



Part No.	Product No.	Housing	Thread	Barrel lgth.	1	10	25
512399CM	GS100502	Alum., red	M12-1	65mm	\$29.35	\$26.37	\$23.76
512401CM	GS100701	Alum., blk	15/32" - 32	1.0"	21.39	20.31	19.29



## Gear Tooth Speed and Direction Sensors

- Sense speed & direction of ferrous gear tooth targets
- Plastic flange mount sensor rated to 125°C
- Near-zero speed sensing capability
- Capable of 800Hz target speed
- Locating mark provided to assure correct rotational alignment
- Reverse battery protected to -30VDC
- Internal circuit protection to IEC529 1000
- Meets IEC529 IP67 for dust & water protection
- Operating voltage range: 4.75-24VDC
- Supply current: 20mA max.
- Output current: 20mA max.
- Output saturation voltage: 1000mV max.
- Output: sink



**NEW**

Part No.	Product No.	Op. Temp. Range	Housing Material	1	10	100
577328CM	SD100103	-40°C to 85°C	Aluminum	\$56.05	\$45.44	\$40.88
577336CM	SD101201	-40°C to 125°C	Plastic	24.85	23.56	21.18



## Digital Vane Speed & Proximity Sensors

- Magnetically activated
- Rugged over molded plastic housing
- Immune from moisture & dust
- No mechanical contacts to wear out
- Reverse battery protection to -24VDC
- Open collector output compatible w/ all logic families
- Sensor body material: glass filled polyester
- Operating voltage range: 4.5-24VDC
- Supply current: 6mA max.
- Output saturation voltage: 400mV max.
- Output current: 25mA max.
- Operating temperature range: -40°C to 85°C



577580CM

**NEW**

Part No.	Product No.	Output	Termination Pins	1	10	25
577580CM	VN101501	3-pin sink	Pins	\$5.55	\$5.26	\$4.04
577598CM	VN101503	3 wire sink	24AWG x 150mm	5.75	5.39	5.13

## Commercial Customers

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## Alcoswitch P Series Knobs

- 1/4" or 1/8" shaft sizes
- General purpose phenolic (thermoset)
- Set screws: steel, hex head, cup point
- Finish: gloss (except PKX, matte)
- Inlays: skirts: aluminum alloy, spun finish



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[www.Jameco.com/Prod/AlcoKnobs](http://www.Jameco.com/Prod/AlcoKnobs)

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## Color Instrumentation Knobs (1/4" Shaft Diameters)

- JK-907 series: pressure fit type, top set screw; JK-905 series: side set screw
- CR-MS series for knurled shaft
- All photos on [www.Jameco.com](http://www.Jameco.com)



Fig. 1  
264823CM



Fig. 2  
265148CM



Fig. 3  
265084CM



Fig. 4  
265033CM



Fig. 5  
265228CM

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	Fig.	1	10	100
264823CM	CPBTAA191A1S6.4BK	Black/black	White	.79 x .77	1	.99	.93	.88
264786CM	CPBTAA191A1S6.4RD	Black/red	White	.79 x .77	1	.99	.93	.88
264794CM	CPBTAA191A1S6.4YW	Black/yellow	White	.79 x .77	1	.99	.93	.88
264807CM	CPBTAA191A1S6.4BL	Black/blue	White	.79 x .77	1	.99	.93	.88
264815CM	CPBTAA191A1S6.4GN	Black/green	White	.79 x .77	1	.99	.93	.88
264831CM	CPBTAA191A1S6.4GY	Black/grey	White	.79 x .77	1	.99	.93	.88
265156CM	JK-907A-BL	Grey/blue	Blue	.76 x 1.27	2	1.99	1.87	1.78
265130CM	JK-907A-RD	Grey/red	Red	.76 x 1.27	2	1.99	1.87	1.78
265148CM	JK-907A-YW	Grey/yellow	Yellow	.76 x 1.27	2	1.99	1.87	1.78
265181CM	JK-907B-BL	Grey/blue	Blue	.86 x .94	2	1.99	1.87	1.78
265172CM	JK-907B-YW	Grey/yellow	Yellow	.86 x .94	2	1.99	1.87	1.78
265164CM	JK-907B-RD	Grey/red	Red	.86 x .94	2	1.99	1.87	1.78
265199CM	JK-907C-RD	Grey/red	Red	.72 x .68	2	1.99	1.87	1.69
265201CM	JK-907C-YW	Grey/yellow	Yellow	.72 x .68	2	1.99	1.87	1.78
265210CM	JK-907C-BL	Grey/blue	Blue	.72 x .68	2	1.99	1.87	1.78
265050CM	JK-905A	Black/red	White	.58 x .57	3	.92	.73	.66
265068CM	JK-905B	Black/yellow	White	.58 x .57	3	.92	.73	.66
265076CM	JK-905C	Black/blue	White	.58 x .57	3	.92	.73	.66
265084CM	JK-905D	Black/green	White	.58 x .57	3	.92	.73	.66
265017CM	JK-904A	Black/red	White	.47 x .78	4	.99	.93	.88
265025CM	JK-904B	Black/yellow	White	.47 x .78	4	.99	.93	.88
265033CM	JK-904C	Black/blue	White	.47 x .78	4	.99	.93	.88
265041CM	JK-904D	Black/green	White	.47 x .78	4	.99	.93	.88
265261CM	CR-MS-5C5-T18	Grey	Grey	.68 x .51	5	.78	.67	.61
265252CM	CR-MS-4C5-T18	Grey	Green	.68 x .51	5	.78	.67	.61
265244CM	CR-MS-3C5-T18	Grey	Blue	.68 x .51	5	.78	.67	.61
265236CM	CR-MS-2C5-T18	Grey	Yellow	.68 x .51	5	.78	.67	.61
265228CM	CR-MS-1C5-T18	Grey	Red	.68 x .51	5	.78	.67	.61

\* For use with 1/4" knurled shaft



## Aluminum Instrumentation Knobs (1/8" and 1/4" Shaft Diameters)

Includes: Set screw for secure attachment  
290124CM: Coarse surface for sensitive control; 1/8" shaft dia.

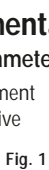


Fig. 1



Fig. 2



Fig. 3

Part No.	Cross Ref. No.	Shaft Size	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
290124CM	42008-1	1/8"	Silver	Silver	.500 x .625	1.99	1.79	1.61
162481CM	K5-1/4S	2 1/4"	Chrome	Silver	.500 x .560	1.19	1.09	.96
162499CM	K5-1/4B	3 1/4"	Black	White	.500 x .560	1.55	1.39	1.07
138481CM	KN031	4 1/4"	Alum.	Black	.610 x .650	1.49	1.35	1.19
138501CM	KN032	4 1/4"	Alum.	Black	.870 x .750	1.95	1.71	1.55
138510CM	KN033	4 1/4"	Alum.	Black	1.18 x .870	2.49	2.24	1.95

## 200 Piece Spring Assortment

This kit contains approximately 200 springs with 20 different types, compression and tension ratings in a clear plastic case. They range from smallest which is about 10mm long to the longest 70mm long. Spring sizes listed on lid of plastic case.



Part No.	Description	1	10
314413CM	200-piece spring assortment	\$7.29	\$6.89

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.



## Black Instrumentation Knobs (1/4" Shaft Diameters)

- Set screw for secure attachment
- RN-112A/113A/114A: Numeric dial type



265092CM



265105CM



265113CM



265121CM



264997CM



265009CM



264882CM



264891CM



264911CM



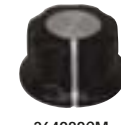
264920CM



264946CM



264954CM



264989CM



102787CM



104176CM



202286CM



136240CM



138392CM

Part No.	Cross Ref. No.	Body Color	Pointer Color	Size (H" x Dia.)	1	10	100
265092CM	JK-906A	Black	White	.72 x 1.39	\$1.09	\$.87	\$.80
265105CM	JK-906B	Black	White	.79 x .95	1.02	.71	.65
265113CM	JK-906C	Black	White	.64 x .82	.83	.62	.57
265121CM	JK-906D	Black	White	.58 x .61	.68	.55	.54
264997CM	JK-902A	Black	White	.69 x 1.31	.74	.57	.53
265009CM	JK-902B	Black	White	.60 x .95	.69	.47	.44
264920CM	JK-901A	Black/alum	White	.79 x 1.77	1.34	1.16	1.05
264946CM	JK-901B	Black/alum	White	.64 x 1.29	.90	.71	.65
264954CM	JK-901C	Black/alum	White	.61 x 1.06	.75	.59	.54
264989CM	JK-901D	Black/alum	White	.47 x .78	.68	.53	.48
264882CM	RN-112A	Black/alum	Numeric	.90 x 1.46	.99	.93	.88
264891CM	RN-113A	Black/alum	Numeric	.70 x 1.15	.99	.93	.88
264911CM	RN-114A	Black/alum	Numeric	.58 x 1.46	.99	.93	.88
102787CM	JK-903C	Black	White	.54 x 1.25	.64	.41	.39
104176CM	JK-902C	Black	White	.49 x .75	.99	.85	.65
202286CM	CP-Z1-M-S	Black/alum	White	.60 x .80	.79	.69	.64
136240CM	GKB-214	Black/alum	White	.52 x .54	.65	.55	.49
138392CM	41108-1	Black/alum	White	.56 x .85	.79	.59	.54

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## Hardware and Spacer Assortment Kit

Includes 2300 pcs. (23 types) Spacers, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

SAVE \$26



100 each Spacers	100 each Hex nuts	100 each Flat	100 each Int. tooth	100 each Split lock	100 each PH machine screws
—	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 1/2, —
Part No.	Description	Wt. (lbs.)	1	10	
108433CM	2300 pcs. Hardware kit	7.5	\$55.95	\$50.36	
130497CM	Refill for 108433CM (2300 pcs.)	2.7	39.95	35.95	

## Spacers

### Aluminum Round Spacers

- 3/16" OD • #4 ID (0.115")
- Iridite clear finish

\* Repackaged: order in increments of 10, 100 or 1000

Part No.	Product No.	Length	1	10	100	1000
392850CM	1107-4-A-7	1/8"	*	\$ .177	\$ .169	\$ .159
392868CM	1108-4-A-7	3/16"	*	.195	.186	.176
392876CM	1109-4-A-7	1/4"	.20	.194	.19	.185
392884CM	1110-4-A-7	5/16"	.26	.214	.203	.193
392892CM	1111-4-A-7	3/8"	.26	.214	.203	.193
392905CM	1112-4-A-7	7/16"	.34	.288	.274	.26
392913CM	1113-4-A-7	1/2"	.29	.233	.221	.21
392921CM	1115-4-A-7	5/8"	.30	.242	.23	.218
392930CM	1116-4-A-7	11/16"	.44	.37	.35	.34
392948CM	1117-4-A-7	3/4"	.33	.279	.265	.252

Blue Part No. = Limited Quantity Available

### Aluminum Round Spacers

- 1/4" OD • #4 ID (0.115")
- Iridite clear finish

Part No.	Product No.	Length	1	10	100	1000
393051CM	1122-4-A-7	1/8"	\$.24	\$.205	\$.194	\$.185
393060CM	1123-4-A-7	3/16"	.24	.205	.194	.185
393078CM	1124-4-A-7	1/4"	.24	.205	.194	.185
393086CM	1125-4-A-7	5/16"	.24	.205	.194	.185
393094CM	1126-4-A-7	3/8"	.30	.242	.23	.218
393107CM	1127-4-A-7	7/16"	.39	.326	.309	.294
393115CM	1128-4-A-7	1/2"	.30	.242	.23	.218
393123CM	1133-4-A-7	13/16"	.39	.326	.309	.294
393131CM	1134-4-A-7	7/8"	.39	.326	.309	.294
393140CM	1136-4-A-7	1"	.39	.326	.309	.294

Blue Part No. = Limited Quantity Available

### Aluminum Round Spacers

- 1/4" OD • #6 ID (0.140")
- Iridite clear finish

Part No.	Product No.	Length	1	10	100	1000
393254CM	1122-6-A-7	1/8"	\$.24	\$.205	\$.194	\$.185
393262CM	1123-6-A-7	3/16"	.24	.205	.194	.185
393271CM	1124-6-A-7	1/4"	.24	.205	.194	.185
393289CM	1125-6-A-7	5/16"	.24	.205	.194	.185
393297CM	1126-6-A-7	3/8"	.30	.242	.23	.218
393300CM	1127-6-A-7	7/16"	.39	.326	.309	.294
393318CM	1128-6-A-7	1/2"	.30	.242	.23	.218
393326CM	1133-6-A-7	13/16"	.39	.326	.309	.294
393334CM	1134-6-A-7	7/8"	.39	.326	.309	.294

Blue Part No. = Limited Quantity Available

### Brass Round Spacers

- 3/16" OD • #4 ID (0.115") • Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
392956CM	1107-4-B-12	1/8"	\$.79	\$.67	\$.64	\$.60
392964CM	1108-4-B-12	3/16"	.85	.68	.64	.61
392972CM	1109-4-B-12	1/4"	.86	.74	.70	.67
392981CM	1110-4-B-12	5/16"	.87	.74	.71	.67
392999CM	1111-4-B-12	3/8"	.89	.75	.72	.68
393001CM	1112-4-B-12	7/16"	.91	.77	.73	.70
393019CM	1113-4-B-12	1/2"	.93	.78	.74	.70
393027CM	1115-4-B-12	5/8"	1.12	.95	.90	.86
393035CM	1116-4-B-12	11/16"	1.14	.96	.91	.87
393043CM	1117-4-B-12	3/4"	1.16	.98	.93	.88

### Brass Round Spacers

- 1/4" OD • #4 ID (0.115") • Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393158CM	1122-4-B-12	1/8"	\$.24	\$.205	\$.194	\$.185
393166CM	1123-4-B-12	3/16"	.22	.186	.177	.168
393174CM	1124-2-B-12	1/4"	.26	.214	.203	.193
393182CM	1125-4-B-12	5/16"	.31	.26	.247	.23
393191CM	1126-4-B-12	3/8"	.32	.26	.247	.235
393203CM	1127-4-B-12	7/16"	.77	.65	.62	.59
393211CM	1128-4-B-12	1/2"	.34	.288	.274	.26
393220CM	1133-4-B-12	13/16"	.97	.82	.78	.74
393238CM	1134-4-B-12	7/8"	.66	.56	.53	.504
393246CM	1136-4-B-12	1"	.74	.63	.60	.57

### Brass Round Spacers

- 1/4" OD • #6 ID (0.140")
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393351CM	1122-6-B-12	1/8"	\$.24	\$.205	\$.194	\$.185
393369CM	1123-6-B-12	3/16"	.22	.186	.177	.168
393377CM	1124-6-B-12	1/4"	.26	.214	.203	.193
393385CM	1125-6-B-12	5/16"	.31	.26	.247	.235
393393CM	1126-6-B-12	3/8"	.32	.26	.247	.235
393406CM	1127-6-B-12	7/16"	.77	.65	.62	.59
393414CM	1128-6-B-12	1/2"	.34	.288	.274	.26
393422CM	1133-6-B-12	13/16"	.97	.88	.78	.74
393431CM	1134-6-B-12	7/8"	.66	.56	.53	.504
393449CM	1136-6-B-12	1"	.74	.63	.60	.57

## Standoffs

### Male-Female Hex Aluminum Standoffs

- 3/16" Hex • 4-40 thread
- Iridite clear finish
- Thread length : 1/4"

Part No.	Product No.	Length	1	10	100	1000
393457CM	4501-440-A-7	1/4"	\$.35	\$.298	\$.283	\$.269
393465CM	4503-440-A-7	3/8"	.35	.298	.283	.269
393473CM	4505-440-A-7	1/2"	.35	.298	.283	.269
393490CM	4509-440-A-7	3/4"	.39	.326	.309	.294
393502CM	4513-440-A-7	1"	.39	.326	.309	.294

Blue Part No. = Limited Quantity Available

### Male-Female Hex Brass Standoffs

- 1/4" Hex • Zinc clear chromate finish
- 4-40 thread • Thread length : 3/16"

Part No.	Product No.	Length	1	10	100	1000
393836CM	4530-440-B-12	1/4"	\$.73	\$.61	\$.58	\$.55
393844CM	4532-440-B-12	3/8"	.75	.63	.60	.57
393852CM	4534-440-B-12	1/2"	.81	.69	.65	.62
393861CM	4536-440-B-12	5/8"	.83	.70	.66	.63
393879CM	4538-440-B-12	3/4"	.78	.66	.63	.60
393887CM	4542-440-B-12	1"	.78	.66	.63	.60
393895CM	4546-440-B-12	1-1/4"	.85	.72	.68	.65
393908CM	4550-440-B-12	1-1/2"	1.24	1.05	1.00	.95

Blue Part No. = Limited Quantity Available

### Female-Female Hex Brass Standoffs

- 1/4" Hex • 4-40 thread
- Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393684CM	2100-440-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393693CM	2102-440-B-12	3/8"	.37	.292	.292	.277
393705CM	2103-440-B-12	7/16"	.71	.60	.57	.55
393713CM	2104-440-B-12	1/2"	.44	.372	.353	.336
393721CM	2106-440-B-12	5/8"	.61	.512	.486	.462
393731CM	2108-440-B-12	3/4"	.69	.58	.55	.52
393748CM	2112-440-B-12	1"	.81	.69	.65	.62

### Female-Female Hex Brass Standoffs

- 1/4" Hex • 6-32 thread • Zinc clear chromate finish

Part No.	Product No.	Length	1	10	100	1000
393756CM	2100-632-B-12	1/4"	\$.24	\$.205	\$.194	\$.185
393764CM	2102-632-B-12	3/8"	.37	.307	.292	.277
393772CM	2104-632-B-12	1/2"	.44	.372	.353	.336
393781CM	2106-632-B-12	5/8"	.61	.512	.486	.462
393799CM	2108-632-B-12	3/4"	.69	.58	.548	.52
393801CM	2112-632-B-12	1"	.81	.69	.65	.62
393810CM	2120-632-B-12	1-1/2"	.77	.65	.62	.59

Blue Part No. = Limited Quantity Available

### Male-Female Hex Aluminum Standoffs

- 3/16" Hex • 6-32 thread
- Iridite clear finish • Thread length : 3/8"

Part No.	Product No.	Length	1	10	100	1000
393537CM	4501-632-A-7	1/4"	\$.35	\$.298	\$.283	\$.269
393545CM	4503-632-A-7	3/8"	.35	.298	.283	.269
393553CM	4505-632-A-7	1/2"	.35	.298	.283	.269
393570CM	4509-632-A-7	3/4"	.39	.326	.309	.294
393588CM	4513-632-A-7	1"	.39	.326	.309	.294

### Male-Female Hex Brass Standoffs

- 1/4" Hex • Zinc clear chromate finish
- 6-32 thread • Thread length : 3/16"

Part No.	Product No.	Length	1	10	100	1000
393916CM	4530-632-B-12	1/4"	\$.73	\$.61	\$.58	\$.55
393924CM	4532-632-B-12	3/8"	.75	.63	.60	.57
393932CM	4534-632-B-12	1/2"	.81	.69	.65	.62
393941CM	4538-632-B-12	3/4"	.78	.66	.63	.60
393959CM	4542-632-B-12	1"	.78	.66	.63	.60
393967CM	4546-632-B-12	1-1/4"	.85	.72	.68	.65

## Thumbscrews

### Washer-Face Aluminum

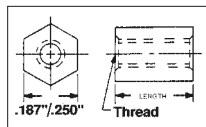
Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
393975CM	7100-A	4-40	5/16"	5/8"	\$1.55	\$1.47	\$1.40	\$1.33
393983CM	7101-A	4-40	3/8"	11/16"	1.55	1.47	1.40	1.33
393991CM	7105-A	4-40	1/2"	13/16"	1.55	1.47	1.40	1.33
394003CM	7106-A	8-32	3/8"	11/16"	1.69	1.61	1.53	1.45
394011CM	7107-A	8-32	1/2"	13/16"	1.75	1.66	1.58	1.50
394020CM	7109-A	10-32	3/8"	11/16"	1.69	1.61	1.53	1.45
394038CM	7111-A	10-32	5/8"	15/16"	1.75	1.66	1.58	1.50
394046CM	7112-A	1/4-20	3/8"	3/4"	1.79	1.70	1.62	1.54

### Plain Aluminum

Part No.	Product No.	Thread	Thread Length	Length	1	10	100	1000
394054CM	7120-A	4-40	5/16"	1/2"	\$1.55	\$1.47	\$1.40	\$1.33
394062CM	7125-A	6-32	3/8"	9/16"	1.49	1.42	1.35	1.28
394071CM	7128-A	8-32	3/8"	9/16"	1.65	1.56	1.49	1.41
394089CM	7135-A	10-32	1/2"	11/16"	1.69	1.60	1.52	1.44
394097CM	7138-A	1/4-20	1/2"	3/4"	1.79	1.71	1.63	1.55
394100CM	7140-A	1/4-20	5/8"	7/8"	1.85	1.76	1.67	1.59

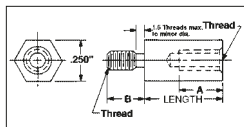
Blue Part No. = Limited Quantity Available



Hex  
.187\"/>

.187\"/&gt;

## Aluminum &amp; Brass Threaded Standoffs

† Finish: Iridite (clear)<sup>1</sup> per MIL-C-5541-D;  
bright tin plate<sup>2</sup>; stainless steel<sup>3</sup>Hex  
.250\"/>

.250\"/&gt;

## .187\"/&gt;

4-40 Thread (Fig. 1) .187\"/&gt;

Part Number	Metal†	Hex Length	Pricing			
			10	100	1000	
175636CM	Brass⊕ <sup>2</sup>	.187"	\$ .21	\$ .15	\$ .10	
102795CM	Brass⊕ <sup>2</sup>	.240"	.21	.15	.10	
133612CM	Alum⊕ <sup>1</sup>	.250"	.20	.14	.11	
133639CM	Alum⊕ <sup>1</sup>	.500"⊕	.22	.20	.11	
139791CM	Alum⊕ <sup>1</sup>	.562"	.19	.16	.14	
133647CM	Alum⊕ <sup>1</sup>	.625"	.14	.13	.115	
133655CM	Alum⊕ <sup>1</sup>	.750"⊕	.43	.39	.23	
139184CM	Alum⊕ <sup>1</sup>	1.000"	.43	.39	.32	

## .250\"/&gt;

4-40 Thread (Fig. 1) .250\"/&gt;

\* 10 piece minimum

Part Number	Metal†	Hex Length	Pricing			
			1	10	100	1000
139192CM	Alum⊕ <sup>1</sup>	.250"⊕	* \$ .17	\$ .13	\$ .09	
77500CM	Alum⊕ <sup>1</sup>	.375"⊕	.22	.20	.15	.09
134762CM	Alum⊕ <sup>1</sup>	.437"	.23	.21	.18	.15
108370CM	Alum⊕ <sup>1</sup>	.500"⊕	.28	.25	.17	.10
77518CM	Alum⊕ <sup>1</sup>	.625"⊕	.42	.35	.19	.14
133604CM	Alum⊕ <sup>1</sup>	.750"⊕	.41	.37	.21	.16
139206CM	Alum⊕ <sup>1</sup>	1.000"	.49	.35	.25	.15

## .250\"/&gt;

6-32 Thread (Fig. 1) .250\"/&gt;

\* 10 piece minimum

Part Number	Metal†	Hex Length	Pricing			
			1	10	100	1000
77534CM	Alum⊕ <sup>1</sup>	.250"⊕	.24	.22	.14	\$ .08
133592CM	Alum⊕ <sup>1</sup>	.375"	.32	.29	.13	.09
77542CM	Alum⊕ <sup>1</sup>	.500"⊕	.24	.22	.17	.10
77551CM	Alum⊕ <sup>1</sup>	.625"	.28	.25	.19	.14
77570CM	Alum⊕ <sup>1</sup>	.750"	.31	.28	.21	.13
77577CM	Alum⊕ <sup>1</sup>	1.000"	.59	.35	.30	.16
143407CM	Alum⊕ <sup>1</sup>	1.500"⊕	.69	.61	.49	.42
143440CM	Alum⊕ <sup>1</sup>	1.750"	.79	.59	.48	.41

⊕ Blue Part No. = Limited Quantity Available

3M

## Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



119618CM



126981CM



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Part No.	Product No.	Type	Fig.	Pack	(W" x H")	1	10	50
119618CM	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	\$ .37	\$ .36	\$ .35
142658CM	SJ5012BLK4	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.86
142771CM	SJ5008BLK4	Black square	2	100	.50 x .12	6.69	4.76	3.81
142682CM	SJ5018BLK4	Black square	3	100	.50 x .23	9.95	8.25	7.04
126981CM	SJ5023BLK4	Black square	4	4	.81 x .30	1.95	1.75	1.59
142666CM	SJ5023BLK4	Black square	4	100	.81 x .30	14.25	9.59	9.29

⊕ RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## SAE Hardware

• Zinc-plated steel



Prepackaged: order in increments of 100 or 1000

## Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum	
				100	1000
38172CM	2-56⊕	Std	.250	\$ .025	\$ .022
40951CM	4-40⊕	Std⊕	.250	.019	.011
40969CM	4-40⊕	Std	.375	.017	.012
106810CM	4-40⊕	Std	.500	.018	.013
106542CM	6-32⊕	Std	.250	.018	.013
42446CM	6-32⊕	Std	.375	.019	.014
42438CM	6-32	Std	.500	.019	.015
106796CM	8-32⊕	Std⊕	.500	.04	.025

## Hex Nuts

Part Number	Screw Size	Thread	Length (inches)	100 piece minimum	1000
38164CM	2-56⊕	Std⊕	.183	\$ .022	\$ .014
211123CM	4-40	Sm	.184	.023	.011
40942CM	4-40⊕	Std⊕	.243	.025	.013
42420CM	6-32⊕	Std	.306	.023	.014
51553CM	8-32⊕	Std	.334	.02	.014

## Flat Washers

Part Number	Screw Size	Dia. (inches)	100 piece minimum	
			100	1000
211131CM	4	.237	\$ .019	\$ .014
106825CM	4⊕	.281	.022	.019
106833CM	6⊕	.373	.023	.02
106841CM	8	.377	.04	.025

## Internal Tooth Lock Washers

Part Number	Screw Size	Length (inches)	100 piece minimum	1000
106850CM	4⊕	.258	\$ .018	\$ .015
106868CM	6⊕	.277	.018	.015
106876CM	8⊕	.323	.02	.018

## Split Lock Washers

Part Number	Screw Size	Length (inches)	100 piece minimum	1000
106788CM	2⊕	.161	\$ .024	\$ .016
211140CM	4	.201	.02	.015
40977CM	4⊕	.242	.02	.015
42462CM	6⊕	.240	.015	.013
51609CM	8⊕	.279	.02	.012

⊕ Blue Part No. = Limited Quantity Available

## RAF Instrumentation Handles

216821CM:

- Material: brass, nickel plate
- Oval diameter: 5/8"
- Internal thread size: 10-32



457801CM: • Material: black anodized steel

- Oval diameter: 1/4"
- Internal thread size: 6-32

Part No. Size (L" x H" x T") 1 10 100

216821CM 3.0 x 1.3 x 0.3 ..... \$2.49 \$2.12 (\$1.59)

457801CM 3.0 x 1.0 x 0.4 ..... 2.19 1.83 1.70

3M

## Bumpon™ Protective Products

These durable, pressure sensitive, adhesive-backed urethane bumpers provide many high performance advantages: adhere quickly and stay in place on a variety of surfaces, resist marring and staining on surfaces, and give excellent skid and abrasion resistance.

Part No.	Description	Color	1	10	25
651891CM	Hexagon die cut shape (132 pieces per pack)⊕	Light brown	\$7.25	\$6.44	\$5.78
651903CM	Hemisphere shape (96 pieces per pack)⊕	Clear	7.25	6.44	5.78
651911CM	Cylindrical shape (56 pieces per pack)⊕	Clear	7.25	6.44	5.78
651920CM	Cylindrical shape (56 pieces per pack)⊕	White	7.25	6.44	5.78
651938CM	Hexagonal cone shape (132 pieces per pack)⊕	Clear	8.15	7.21	6.48



Hexagon Die Cut



Cylindrical



Hemisphere



Hexagonal Cone

## PCB Standoff Mounting Hardware

SALE

- Snap "on"
- Nylon
- 291987CM: with thread
- 10 piece minimum



Part No.	Cross Ref. No.	Dimensions	Holes	10	100	1000
28337CM	PCST⊕	1.2"L x 0.6"W	0.2" .....	\$ .12	\$ .07	\$ .04
129251CM	PCST2⊕	0.9"L x 0.4"Dia.	0.2"/0.3" .....	.18	.11	.075
148056CM	PCST3	0.8"L x 0.5"W	0.1"/0.2" .....	.09	.08	.06
156831CM	KCS10⊕	0.68"L x 0.32"Dia.	0.14" .....	.125	.093	.073
291961CM	ACBS-6	0.75"L x 0.5"W	0.1"/0.2" .....	.122	.052	.029
291987CM	CASE-45-50	0.85"L x 0.3"Dia.	0.2" .....	.126	.083	.053
292015CM	SCB-6	0.7"L x 0.27"Dia.	0.1"/0.2" .....	.162	.138	.117



135394CM - Electrolytic

135271CM - LEDs

169578CM - Photocells

18294CM - Toy Motors

149649CM - Fans

55968CM - Spacers

319599CM - Cabinet

\* "LB" grab bag quantities and weights are approximate • Opened grab bags are not returnable • Use our 20-drawer cabinet w/ labels to store your components, P/N 319599CM

Shaded in brown on this page you will find Jameco's nine most popular component Grab Bags. They are all individually bagged, and are combined to make up the Schwab's School Selection (P/N 163213CM) referenced towards the bottom of the page.

## Capacitors

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17857CM	GB100	200 asst. ceramic disc capacitors	0.2 .....	\$4.95	\$4.49
135335CM	GB100LB*	1 lb. (813 pcs) asst. ceramic disc caps	1.0 .....	12.95	11.49
17881CM	GB101	100 assorted mylar capacitors	0.3 .....	5.95	5.35
135458CM	GB101LB*	1 lb. (440 pcs) asst. mylar capacitors	1.0 .....	14.95	13.49
17911CM	GB102	100 assorted electrolytic capacitors radial, axial, snap	0.5 .....	4.95	4.49
135394CM	GB102LB*	1.5 lb. assorted (300 pcs) electrolytic caps radial, axial, snap (photo above)	1.5 .....	12.95	11.49
17945CM	GB103	100 assorted tantalum capacitors (dipped epoxy and solid tubular)	0.1 .....	9.95	8.95

## Diodes, Transistors and Crystals/Oscillators

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
17961CM	GB107	200 assorted diodes (zener, switching, silicon)	0.1 .....	\$5.95	\$5.35	\$4.79
18171CM	GB127	100 assorted transistors (NPN, PNP, power)	0.1 .....	5.95	5.35	4.79
114446CM	GB150	50 assorted crystals/oscillators	0.2 .....	7.95	6.95	6.25

## Resistors, Trimmers and Potentiometers

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18104CM	GB116	200 asst. 1/4W resistors (5&10%)	0.1 .....	\$5.49	\$4.95
135351CM	GB116LB*	1 lb. (2000 pcs) asst. 1/4W resistors	1.0 .....	14.95	13.49
18139CM	GB117	200 asst. 1/2W resistors (5&10%)	0.2 .....	5.95	5.35
18075CM	GB113	100 asst. 1/10W to 1/8W trimmer pots (100Ω to 2MΩ values)	0.1 .....	5.15	3.89
18278CM	GB174	100 assorted 1/4W & 1/2W single-turn pots (100Ω to 5MΩ assorted values)	0.2 .....	6.95	6.25

## Integrated Circuits and Sockets

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
17996CM	GB108	100 assorted 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.2 .....	\$6.95	\$6.25
135280CM	GB108LB*	1 lb. (400 pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0 .....	19.05	17.15
18024CM	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 reg.) DIP, TO-3, TO-220	0.6 .....	7.95	6.95
145242CM	GB109LB*	2 lb. (300 pcs) asst. linear series (LM300, 500, 700, 7800, 7900 reg.)	2.0 .....	19.05	17.14
114964CM	GB171	100 asst. microprocessor series (micros, PALS, RAMs, PROMs, EPROMs)	0.7 .....	12.95	11.49
105620CM	GB120	100 asst. sockets (DIP IC, PGA)	0.3 .....	5.95	5.35
135386CM	GB120LB*	1 lb. (260 pcs) assorted sockets (DIP, PGA, SIMM, SIP, DIN)	1.0 .....	12.95	11.49

## veileman 5mm x 20mm Fast Acting Fuse Kit

- Voltage rating: 250VAC
- Glass cartridge, silver-end caps
- IEC127 / BS4265 / CEE4 specifications
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A



Part No.	Product No.	1	10	25
645343CM	K/FF .....	\$12.29	\$11.68	\$11.09

## LEDs, Displays and Photocells

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
18041CM	GB110	100 assorted sizes & colored LEDs (T1&T1 <sup>3</sup> / <sub>4</sub> round and rectangular)	0.1 ...	\$6.95	\$6.29	\$5.65
18323CM	GB186	500 asst. sizes #18041CM LEDs	0.3 ...	19.95	17.95	15.95
135271CM	GB110LB*	1 lb. (1900 pcs) asst. #18041CM LEDs	1.0 ...	44.95	40.95	38.95
18201CM	GB162	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.5 .....	9.95	7.45	6.69
169578CM	GB125	100 asst. values photocells	0.2 ...	12.95	11.49	10.35

## Switches, Toy Motors and Fans

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
18235CM	GB165	50 assorted switches (toggle, pushbutton, rocker, slide)	0.4 .....	\$8.75	\$7.69
135378CM	GB165LB*	1 lb. (135 pcs) asst. #18235CM switches	1.0 .....	18.95	16.95
18294CM	GB182	5 asst. toy DC motors (1.5-24V)	1.1 .....	5.49	4.95
149649CM	GB193	5 asst. AC&DC fans (photo above)	4.5 .....	8.75	7.69

## Hardware Assortments

- 2-56
- Screws
- Steel
- 4-40
- Plastic
- Brass
- 6-32
- Nuts
- Lock Washers
- 8-32
- Washers
- Aluminum



Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
171571CM	GB149*	1 lb. (500 pcs) asst. types of screws, nuts, washers & lock washers	1.0 .....	\$5.95	\$5.35	\$4.79
171635CM	GB149LB*	3 lbs. (1400 pcs) asst. types; same as P/N 171571CM (above)	3.0 .....	12.95	11.49	9.95

## Spacers and Standoffs Assortments

- Round
- Hex
- Aluminum
- Brass
- Steel
- Plastic
- Nylon

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
166481CM	GB440	100 asst. 4-40 spacers/standoffs	0.5	\$12.95	\$12.49	\$11.49
166490CM	GB632	100 asst. 6-32 spacers/standoffs	0.5 ...	16.95	15.49	13.95
55968CM	GB140	100 asst. 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.3 ...	17.95	16.49	14.95
135423CM	GB140LB*	1 lb. (310 pcs) same as P/N 55968CM	1.0 ...	34.95	31.95	28.00

## Schwab's School Selection

Jameco's nine most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer, Loren Schwab, recommended this selection of products as a standard item. He also recommended a 20-drawer component cabinet with labels (319599CM photo above) for storage.

**\$67.89 Value**



**Includes:** Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

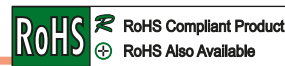
What's your suggestion?

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10
163213CM	GB197	Schwab's School Selection	3.3 .....	\$39.95	\$34.95
319599CM	GB197	20 drawer component cabinet	4.7 .....	15.95	13.95

[www.Jameco.com](http://www.Jameco.com)

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily!

# DC Brushless Fans



Details on Page 1

Color Code Legend			
New	Sale	Lower\$	QtySave



355493CM



279566CM

Call for additional OEM PRICING – we carry major manufacturers.

- Low profile
- Ball and sleeve bearings
- Power input by lead wires or terminals
- PBT black thermo plastic frame and impeller

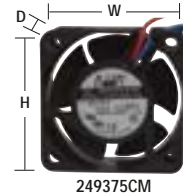
**NEW**

- Agency approved
- Low power consumption
- Low acoustical noise rating

**SALE**



**Quantity SAVE**



249375CM



354933CM

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
131246CM	Adda	AD0205LX-G50	5	1.00 x 1.00 x 0.40	1.8	Sleeve	100	0.5	UL/CSA/CE	15.6	5.5"	\$8.49	\$7.64	\$7.01	\$6.63
206156CM	Sunon	KDE0502PFB3-8	5	1.00 x 1.00 x 0.40	1.8	Ball	60	0.3	UL/CSA/TUV/CE	23	5"	11.95	10.95	9.95	7.95
196373CM	Sunon	KD0504PFB2-8	5	1.60 x 1.60 x 0.40	5.5	Ball	90	0.5	UL/CUL	23	12"	8.95	8.09	7.25	6.55
687789CM	Sunon	KDE0504PKB3	5	1.60 x 1.60 x 0.80	6.2	Ball	140	0.7	UL/CUL	24	11"	7.95	7.15	6.29	5.29
207061CM	Adda	AD0505MB-G90	5	2.00 x 2.00 x 0.40	10.5	Ball	120	0.7	UL/CSA/CE	24	11"	7.95	6.95	6.25	5.59
355493CM	Sunon	KD0506PTS3	5	2.36 x 2.36 x 1.00	15.9	Sleeve	230	1.2	UL/CUL/CE	26.7	6.5" w/ conn.	8.19	7.37	5.89	4.42
279566CM	Mechatronics	F6025H05B	5	2.36 x 2.36 x 1.00	20	Ball	410	2.05	UL/CUL/TUV	31	6"	8.45	8.05	7.18	6.82
212804CM	Sunon	KDE1202PFB3-8	12	1.00 x 1.00 x 0.40	1.3	Ball	40	0.5	UL/CUL/TUV/CE/VDE	26	5.9"	10.95	9.89	8.89	7.99
212759CM	Sunon	KDE1235PFB1-8	12	1.40 x 1.40 x 0.40	5.2	Ball	80	1.0	UL/CUL/TUV/CE/VDE	25	5.9"	11.95	10.76	9.68	8.06
191476CM	Common Wealth	FP-108HX/DC	12	1.60 x 1.60 x 0.40	4.0	Sleeve	60	0.72	UL/CSA/TUV/CE	25	12"	4.95	4.49	3.95	3.55
210796CM	Sunon	KD1204PFB3H	12	1.60 x 1.60 x 0.40	4.7	Ball	50	0.6	UL/CUL/TUV/CE	24	14"	6.95	6.25	5.59	4.95
355418CM	ReliaPro	JR-DCF1241010S1	12	1.60 x 1.60 x 0.40	5.2	Sleeve	60	0.72	UL/CUL/TUV/CE	22.6	11.5"	5.65	3.85	3.52	3.35
279611CM	Toyo	T401012VH	12	1.60 x 1.60 x 0.40	5.8	Ball	90	1.1	UL/CUL/TUV/CE	33.5	12"	5.95	5.29	4.29	3.19
189691CM	Sunon	KD1204PFS1-8	12	1.60 x 1.60 x 0.40	6.6	Sleeve	60	0.7	UL/CUR/TUV/CE	30	12"	7.95	7.19	6.45	5.45
212717CM	Sunon	KDE1204PFB2-H	12	1.60 x 1.60 x 0.40	6.5	Ball	90	1.1	UL/CUL/TUV/CE/VDE	27	12"	6.65	4.95	4.36	3.95
290010CM	Adda	AD0412HB-G70	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	UL/CUL/TUV/CE	25	10" w/ conn.	4.95	4.60	4.14	3.72
311968CM	Adda	AD0412HS-G70	12	1.60 x 1.60 x 0.40	6.7	Sleeve	100	1.2	UL/CUL/TUV/CE	25	2.5"	4.25	3.83	3.06	2.29
213428CM	Adda	AD0412HB-G76 <sup>1</sup>	12	1.60 x 1.60 x 0.40	6.7	Ball	100	1.2	CE	30.2	12"/3 leads	7.59	6.83	5.46	4.10
212724CM	Sunon	KDE1204PFB1-H	12	1.60 x 1.60 x 0.40	8.3	Ball	110	1.4	UL/CUL/TUV/CE/VDE	34.4	12"	6.65	5.98	4.79	3.59
174131CM	Jamicon	JF0413S1M	12	1.60 x 1.60 x 0.47	3.8	Sleeve	90	1.1	UL/CSA/TUV	29	14"	2.95	2.66	2.12	1.59
136178CM	Adda	AD0412MS-C70	12	1.60 x 1.60 x 0.80	5	Sleeve	110	1.32	UL/CSA	23	9"	5.49	2.55	2.29	1.89
195899CM	Sunon	KDE1204PKS2	12	1.60 x 1.60 x 0.80	6.5	Sleeve	70	0.9	UL/CSA/TUV	25.5	12"	7.95	7.15	5.75	4.29
279620CM	Toyo	T402012H	12	1.60 x 1.60 x 0.80	6.7	Ball	70	0.84	UL/CUL/TUV/CE	26.2	12"	7.29	6.56	5.25	3.94
206447CM	Delta	DFB0412H	12	1.60 x 1.60 x 0.80	8.5	Ball	100	1.0	UL/CSA/VDE	32	8"	7.95	7.16	6.44	5.80
249375CM	Adda	AD0412HB-C56 <sup>2</sup>	12	1.60 x 1.60 x 0.80	9.2	Ball	100	1.1	UL/CUL/TUV/CE	39.3	2"	8.95	8.06	6.44	4.83
687754CM	Sunon	KDE1204PKSX-8	12	1.60 x 1.60 x 0.80	9.5	Sleeve	90	1.1	—	28	11"	8.49	7.59	6.79	5.95
206164CM	Sunon	KDE1204PKBX-8	12	1.60 x 1.60 x 0.80	10	Ball	90	1.1	UL/TUV/CE	29.4	2"	8.95	8.06	7.25	4.83
687771CM	Sunon	KDE1206PHS1	12	2.36 x 2.36 x 0.60	21	Sleeve	150	1.8	UL/CSA/TUV/CE	36	10" w/ conn.	7.95	7.15	6.49	5.49
212687CM	Sunon	KDE1245PFB2-H	12	1.80 x 1.80 x 0.40	8.0	Ball	90	1.1	UL/CUL/TUV/CE/VDE	29	12"	4.59	4.13	3.72	3.35
297959CM	Delta	EFB0512HA	12	2.00 x 2.00 x 0.40	11.4	Ball	150	1.8	UL/CSA/CE/VDE	30	6" w/ conn.	6.29	5.66	4.53	3.40
206965CM	Adda	AD0512HB-D71	12	2.00 x 2.00 x 0.60	11.7	Ball	100	1.2	UL/CUL/TUV/CE	28.5	5"	3.55	3.20	2.56	1.92
139601CM	Adda	AD0512HS-D71	12	2.00 x 2.00 x 0.60	12	Sleeve	100	1.2	UL/CSA/CE	29	12"	7.49	6.74	5.39	4.04
249092CM	Sunon	KDE1206PFV2	12	2.36 x 2.36 x 0.40	13.6	Vapo	80	1.0	UL/CSA/CE/TUV	25	11"	7.99	6.45	5.29	4.10
354933CM	Delta	EFB0612MA	12	2.36 x 2.36 x 0.40	15.5	Ball	120	1.4	UL/CSA/VDE/CE	29	12"/3 leads	7.99	7.17	5.75	4.31
687800CM	Sunon	KDE1206PFS1-8	12	2.36 x 2.36 x 0.40	16.5	Sleeve	120	1.4	UL/CUL/TUV	34.5	11"	7.99	7.19	6.29	5.29
195944CM	Adda	AD612MS-D71GL	12	2.36 x 2.36 x 0.60	14.2	Sleeve	110	1.32	UL/CSA/TUV/CE	28.8	6"	7.49	6.69	5.45	4.15
662602CM	Panaflo	FBA06T12H-1BS <sup>3</sup>	12	2.36 x 2.36 x 0.60	16.6	Sleeve	145	1.74	UL/CSA	32	12"/3 leads	9.49	6.95	6.49	5.79
249069CM	Jamicon	JF0615B1H-000-243	12	2.36 x 2.36 x 0.60	15.7	Ball	170	2.04	UL/CUL/TUV/CE	34	10.5"	8.75	7.89	7.09	6.39
685951CM	Sunon	KDE1206PHB2	12	2.36 x 2.36 x 0.60	18	Ball	90	1.1	UL/CSA/TUV/CE	31.5	11"	8.75	7.89	7.09	6.39
175046CM	Globe Motors	D24-B08A-04W3-000	12	2.36 x 2.36 x 0.80	10.6	Ball	90	0.8	UL/CSA/TUV/CE	22	13"	6.95	6.26	5.00	3.75
144160CM	Adda	AD0612LB-C70GL	12	2.36 x 2.36 x 0.80	12.6	Ball	80	1.0	UL/CSA/TUV	22.7	6"	8.79	7.99	6.39	4.85
189595CM	Sunon	KD1206PKS2	12	2.36 x 2.36 x 0.80	16.5	Sleeve	150	1.8	UL/CSA/TUV/CE	31	12"	4.95	4.46	4.01	3.60
237075CM	Nidec	TA225DC-B33399-55	12	2.36 x 2.36 x 1.00	12	Ball	110	1.3	UL/CSA	17.2	10"	5.95	5.36	4.82	3.62
75352CM	Common Wealth	FP108FDC12VS2	12	2.36 x 2.36 x 1.00	15.5	Sleeve	110	1.3	UL/CSA/TUV/CE	25	12"	2.35	2.13	1.94	1.76
136143CM	Delta	SB0612M	12	2.36 x 2.36 x 1.00	17.7	Sleeve	110	1.8	UL/CSA/VDE	26.5	5"	5.95	5.36	4.82	4.34
662645CM	Panaflo	FBA06A12U-1BS <sup>3</sup>	12	2.36 x 2.36 x 1.00	20.5	Sleeve	270	2.52	UL/CSA	37	12"/3 leads	7.49	6.95	5.95	4.49
102947CM	Jamicon	JF0625S1H	12	2.36 x 2.36 x 1.00	20.5	Sleeve	230	2.7	UL/CSA/TUV	30.5	11"	6.49	5.84	4.67	3.50
150422CM	Jamicon	JF0625B1H	12	2.36 x 2.36 x 1.00	20.5	Ball	230	2.7	UL/CSA/TUV	30.5	10"	6.95	6.26	5.00	4.29
195911CM	Sunon	KD1206PTS1	12	2.36 x 2.36 x 1.00	21.7	Sleeve	190	2.3	UL/CSA/TUV	34	12"	6.49	5.84	5.26	4.73
395508CM	Sanyo	109R0612S402	12	2.36 x 2.36 x 1.00	23	Ball	170	2.04	UL/CSA/TUV	33	6"	5.95	5.36	4.28	3.21
400881CM	Comair Rotron	CR0612HB-A70GL	12	2.36 x 2.36 x 1.00	23.2	Ball	230	2.76	UL/CSA/TUV	23.2	12"	6.65	6.15	5.84	5.27
401269CM	Delta	AFB0812LB	12	3.15 x 3.15 x 0.60	24.7	Ball	140	1.68	UL/CSA/TUV	27.5	10"	9.35	6.81	6.40	4.80
109081CM	Adda	AD0812HS-D71	12	3.15 x 3.15 x 0.60	29	Sleeve	190	2.3	UL/CSA/TUV/CE	31.4	12"	9.95	8.99	8.09	7.25
141920CM	Adda	AD0812HB-C70	12	3.15 x 3.15 x 0.80	27.3	Ball	240	2.9	UL/CSA/CE	34	12"	6.35	5.95	5.75	5.55
169933CM	Various	FAN7315S1 <sup>4*</sup>	12	3.15 x 3.15 x 1.00	25-40	Sleeve	120-200	1-2	UL/CSA	25	4-12"	6.95	6.26	5.00	3.75
75361CM	Various	FAN6315B1 <sup>*</sup>	12	3.15 x 3.15 x 1.00	25-40	Ball	120-200	1-2	UL/CSA	25	4-12"	5.95	5.36	4.28	3.21

<sup>1</sup> 213428CM: ATX PC type    <sup>2</sup> 249375CM: Speed sensor    <sup>3</sup> 662602CM/662645CM: Locked rotor alarm sensor    <sup>4</sup> 169933CM: Replacement for the PC/XT computer power supply fan

\* Manufacturer & specifications may vary    Blue Part No. = Limited Quantity Available

DC Brushless Fans continued on page 213

RoHS compliant product    This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 1.



# DC Brushless Fans and Blowers



234894CM



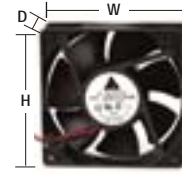
227900CM

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**NEW**  
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163619CM





213567CM

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
234894CM	Adda	AD0812LB-A70GL	12	3.15 x 3.15 x 1.00	27.6	Ball	120	1.44	UL/CSA/TUV/CE	22.5	11.5	\$8.19	\$6.39	\$5.89	\$5.49
286926CM	Toyo	USTF802512MW	12	3.15 x 3.15 x 1.00	29	Ball	180	2.16	UL/CSA/CE/VDE	24.8	4.5"	6.99	6.29	5.03	3.77
154289CM	Sunon	KDE1208PTS3-6	12	3.15 x 3.15 x 1.00	29.4	Sleeve	120	1.4	UL/CSA/TUV/CE	24.5	5.5"	4.55	4.09	3.69	3.06
123529CM	Adda	AD0812MS-A70GL	12	3.15 x 3.15 x 1.00	32	Sleeve	150	1.8	UL/CSA/TUV	28.3	12"	6.95	6.26	5.00	3.75
265578CM	Yate Loon	D80SH-12	12	3.15 x 3.15 x 1.00	33	Ball	190	2.28	UL/CUL/TUV/CE	35	5"	5.29	5.18	5.07	4.96
662661CM	Panaflo	FB0812H1BS <sup>3</sup>	12	3.15 x 3.15 x 1.00	39.6	Sleeve	250	2.08	UL/CSA	32	12"/3 leads	7.95	6.95	5.49	4.49
206181CM	Sunon	KDE1208PTS1-6	12	3.15 x 3.15 x 1.00	42	Sleeve	220	2.6	UL/CSA/TUV/CE	34	9"	5.95	5.39	4.85	4.35
355400CM	ReliaPro	JR-DCF128025B1	12	3.15 x 3.15 x 1.00	42	Ball	230	2.8	UL/CUL/TUV/CE	28.6	11.5"	7.05	5.10	4.80	4.56
249148CM	Sunon	KDE1208PTB1-6	12	3.15 x 3.15 x 1.00	42.5	Ball	220	2.6	None	33.5	12"	6.49	5.85	5.29	4.75
323897CM	Mechatronics	F8025E12B1 <sup>2</sup>	12	3.15 x 3.15 x 1.00	46	Ball	240	2.88	UL/CUL/TUV	32	3"/3 leads	6.99	5.09	4.79	4.45
75441CM	Common Wealth	FP108BDC12VS1	12	3.63 x 3.63 x 1.00	45	Sleeve	320	3.1	UL/CSA/TUV	32	10"	3.79	3.39	3.05	2.75
421526CM	Panasonic	FBA08A12U-1AZ	12	3.15 x 3.15 x 1.00	47	Sleeve	360	4.32	UL/CSA	38.2	11"	6.69	6.02	4.82	3.61
661061CM	Nidec	TA350DC-M33420-58	12	3.63 x 3.63 x 1.00	42	Ball	210	2.52	UL/TUV	4.8	8"/3 leads	7.25	6.49	4.95	3.29
196023CM	Jamicon	FJ0925B1M	12	3.63 x 3.63 x 1.00	45.4	Ball	200	2.4	UL/CSA/TUV	34	10"	5.49	5.22	4.95	4.71
154641CM	Nidec	TA350DC-M33422-16	12	3.63 x 3.63 x 1.00	48	Ball	290	3.5	UL/CSA	43	12"	7.55	6.80	5.44	4.08
190983CM	Sunon	KD1209PTB1-6A	12	3.63 x 3.63 x 1.00	51	Ball	220	2.6	UL/CSA/TUV	34	12"	7.25	6.52	5.22	3.92
162739CM	NMB (Smart Fan)	3610KL-04W-B56 <sup>†</sup>	12	3.63 x 3.63 x 1.00	55	Ball	430	3.8	UL/CSA/VDE/CE	37	10"/3 leads	7.95	7.16	6.44	5.80
102963CM	Nidec	TA350DC-M33503-55	12	3.63 x 3.63 x 1.00	56	Ball	400	4.8	UL/CSA	45	8"	7.95	7.16	5.72	4.29
174140CM	Common Wealth	FP108MS3	12	4.68 x 4.68 x 1.00	54	Sleeve	140	1.7	UL/CSA/TUV/CE	25	12"	6.95	6.26	5.00	3.75
227900CM	Common Wealth	FP-108M-S1-B	12	4.68 x 4.68 x 1.00	80	Ball	330	4.0	UL/CSA/VDE/CE	42	12"	10.95	9.85	8.89	7.99
363848CM	Mechatronics	E1225H12B	12	4.68 x 4.68 x 1.00	82	Ball	385	4.62	UL/CUL/TUV	40	3.5" - \$16.09	12.95	11.79	11.58	8.69
174924CM	Globe Motors	D47-B10A-04T3-000	12	4.68 x 4.68 x 1.00	90	Ball	740	6.8	UL/CSA	39	Terminals	6.95	6.29	5.05	3.79
163619CM	NMB (Smart Fan)	4710NL012P535P0 <sup>†</sup>	12	4.68 x 4.68 x 1.00	90	Ball	740	8.9	None	38.5	12"	4.95	4.46	3.56	2.67
686516CM	ADDA	AD1212HB-F51	12	4.68 x 4.68 x 1.50	104.8	Ball	500	6	UL/CUL/CSA/TUV/CE	42.8	11" w/ conn.	13.95	12.49	10.95	7.95
159020CM	Sunon	KDE1212PMS1-6A	12	4.68 x 4.68 x 1.50	107	Sleeve	570	6.8	UL/CSA/TUV	41	12"	10.95	9.86	7.88	5.91
285966CM	Delta	AFB1212VHE	12	4.68 x 4.68 x 1.50	130	Ball	900	10.8	UL/CSA/VDE/CE	48	6"	14.95	13.45	10.75	8.09
100909CM	Sunon	KD2404PKS2	24	1.60 x 1.60 x 0.80	6.5	Sleeve	50	1.2	UL/CSA/TUV/CE	25.5	12"	7.95	7.16	6.44	5.36
687826CM	Sunon	KDE2404PKB2	24	1.60 x 1.60 x 0.80	7	Ball	40	1.0	UL/CUL/TUV	29	11"	7.95	7.15	6.49	5.29
687818CM	Sunon	KDE2406PHB3	24	2.36 x 2.36 x 0.60	15.2	Sleeve	50	1.2	UL/CUL/TUV	26.5	11"	8.49	7.59	6.59	5.49
421518CM	Panasonic	FBA06T24H	24	2.36 x 2.36 x 0.60	16.6	Sleeve	110	1.99	UL/CSA	32	11"	8.09	7.03	6.31	5.70
140661CM	NMB	2408NL-05W-B60	24	2.36 x 2.36 x 0.80	18.4	Ball	100	2.4	None	31	2"	5.95	5.36	4.28	3.21
174107CM	Jamicon	JF0625S2M	24	2.36 x 2.36 x 1.00	18	Sleeve	130	3.1	UL/TUV	28.5	10"	5.79	5.21	4.69	4.22
189860CM	Jamicon	JF0625B2M	24	2.36 x 2.36 x 1.00	18	Ball	130	3.1	UL/CSA/TUV/CE	28.5	10"	8.95	8.06	7.25	6.52
227248CM	Mechatronics	F6025E24B	24	2.36 x 2.36 x 1.00	24	Ball	125	3.0	UL/CUL/TUV	36	12"	7.95	7.15	5.75	4.29
687797CM	Sunon	KDE2408PTS3-6	24	3.15 x 3.15 x 1.00	29.4	Sleeve	60	1.5	—	24.5	4" w/ conn.	8.95	7.95	6.95	5.79
290028CM	Jamicon	JF0825B2M	24	3.15 x 3.15 x 1.00	31.7	Ball	130	3.1	UL/CUL/TUV/CE	29.3	10"	8.25	7.42	5.94	4.46
662653CM	Panaflo	FB08A24M1A	24	3.15 x 3.15 x 1.00	32.1	Sleeve	100	2.4	UL/CSA	28	11.5"	7.95	5.95	4.95	4.49
136160CM	Jamicon	JF0825B2H	24	3.15 x 3.15 x 1.00	39.2	Ball	150	3.6	UL/CSA/TUV	31	12"	9.49	8.55	7.69	6.95
189886CM	NMB	3610KL-05W-B30	24	3.63 x 3.63 x 1.00	40.6	Ball	87	2.1	UL/CSA/VDE	34	12"	7.95	7.16	5.72	4.29
174094CM	Jamicon	FJ0925S2H	24	3.63 x 3.63 x 1.00	52	Sleeve	190	4.6	UL/CUL	37	10"	6.95	6.26	5.63	5.07
421534CM	Panasonic	FBA09A25M	24	3.63 x 3.63 x 1.06	48	Sleeve	100	2.64	UL/CSA	30	10"	6.69	5.80	4.82	3.61
687762CM	Sunon	KDE2412PTB3-6A	24	4.68 x 4.68 x 1.00	69	Ball	130	3.1	CE	35.5	11"	10.95	9.85	8.79	7.49
249287CM	Jamicon	JF1225B2H5	24	4.68 x 4.68 x 1.00	83	Ball	500	12	None	41.1	7.5"	12.39	11.15	8.92	6.69
421622CM	Sunon	KDE2412PMS1-6A	24	4.68 x 4.68 x 1.50	107	Sleeve	160	6.7	UL/CSA/TUV/CE	41	12"	11.45	9.31	8.52	7.84
100968CM	Sunon	KDE2412PMB3-6A	24	4.68 x 4.68 x 1.50	83	Ball	140	3.4	UL/CSA/TUV/CE	35	12"	12.95	11.69	10.49	9.39
153411CM	Sunon	KD2412PMB2-6A	24	4.68 x 4.68 x 1.50	98	Ball	230	5.5	UL/CSA/TUV	36.5	12"	11.95	10.75	8.65	7.33

<sup>2</sup> 323897CM: Speed sensor    <sup>3</sup> 662661CM: Locked rotor alarm    <sup>†</sup> Temperature control: 162739CM (50°C, 3 leads); 163619CM (35°C)    Blue Part No. = Limited Quantity Available

## DC Brushless Blowers

Part Number	Manufacturer	Product Number	Voltage (VDC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
422801CM	Sunon	GB1205PKV1-8AY	12	2.00 x 2.00 x 0.80	5.7	Vapo	120	1.44	UL/CSA/CE/TUV	35	12" leads	\$12.39	\$9.97	\$9.36	\$8.83
644842CM	Evercool	EC7530M12C-B	12	2.83 x 3.00 x 1.16	10.8	Sleeve	170	2.04	UL/CUL/CE/TUV	30	14" w/ conn.	15.55	10.93	10.27	9.68
614951CM	Delta	BFB0721H	12	2.98 x 2.98 x 1.20	11.3	Ball	60	0.72	UL/CSA/VDE/CE	38	12" leads	11.79	8.35	7.79	7.19
644893CM	Evercool	EC9733M12C-B	12	3.83 x 3.64 x 1.27	2.4	Sleeve	200	19.42	CE	30	14" w/ conn.	20.15	14.16	13.30	12.55
645028CM	Evercool	EC9733H12C-B	12	3.83 x 3.64 x 1.27	23.6	Sleeve	260	3.12	CE	33	14" w/ conn.	20.15	14.16	13.30	12.55
213567CM	Nidec	A34124-33	12	3.83 x 3.72 x 1.30	25	Ball	650	7.8	UL/CUL	60	11.5"/3 leads	16.95	15.29	12.20	9.15

 RoHS compliant product     This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.    Details on page 1.

Color Code Legend  
**New** **Sale** **Lower\$** **QtySave**

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# AC Tube Axial Fans



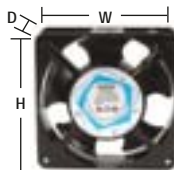
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Details on Page 1

Color Code Legend  
New Sale Lower\$ QtySave



212599CM



275792CM



Call for additional OEM PRICING – we carry major manufacturers.

- Rating 115 & 220VAC @ 50-60Hz
- Low acoustical noise rating
- Agency approved fans
- Ball and sleeve bearings
- Air flow from 11 to 226 CFM

Fan Power Cords Below



206308CM



209365CM

Part Number	Manufacturer	Product Number	Voltage (VAC)	Size (W" x H" x D")	Air Flow (CFM)	Bearing	Current (mA)	Power (Watts)	Agency Approvals	Noise (dBA)	Connection (Leads)	Pricing			
												1	10	50	100
213866CM	Fulltech	UF60D11BWH	115	2.36 x 2.36 x 1.18	10.2	Ball	35	4	UL/CUL/VDE/CE	28	12" leads	\$15.95	\$14.39	\$12.95	\$11.65
162704CM	Toyo	USTF60301153W	115	2.36 x 2.36 x 1.18	11	Ball	38	4	UL/CSA/CE	29	12" leads	15.49	13.95	12.55	11.64
146077CM	Common Wealth	FP108AX-S1-B	115	3.15 x 3.15 x 1.00	23	Ball	140	14	UL/CE	29	12" leads	12.95	11.69	10.49	9.45
300556CM	Fulltech	UF80B11SWH	115	3.15 x 3.15 x 1.00	24	Sleeve	140	14	UL/CUL/TUV/CE	35	12" leads	9.19	8.25	7.98	7.70
300257CM	Fulltech	UF80B11BTH	115	3.15 x 3.15 x 1.00	24	Ball	140	14	UL/CUL/TUV/CE	35	Terminals	11.35	10.19	9.85	9.51
300581CM	Fulltech	UF80A11SWL	115	3.15 x 3.15 x 1.50	25	Sleeve	110	12	UL/CUL/TUV/CE	32	12" leads	9.59	8.64	8.35	8.06
300302CM	Fulltech	UF80A11BWL	115	3.15 x 3.15 x 1.50	25	Ball	110	11	UL/CUL/TUV/CE	32	12" leads	10.55	9.50	9.19	8.87
300329CM	Fulltech	UF80A11BTL	115	3.15 x 3.15 x 1.50	25	Ball	110	12	UL/CUL/TUV/CE	32	Terminals	10.55	9.50	9.19	8.87
300599CM	Fulltech	UF80A11BWH	115	3.15 x 3.15 x 1.50	29	Ball	120	12	UL/CUL/TUV/CE	36	12" leads	11.39	10.26	9.59	9.09
300388CM	Fulltech	UF80A11BTH	115	3.15 x 3.15 x 1.50	30	Ball	120	12	UL/CUL/TUV/CE	36	Terminals	11.39	10.26	9.58	9.10
297932CM	Fulltech	UF80A11SWH	115	3.15 x 3.15 x 1.50	30	Sleeve	120	12	UL/CUL/TUV/CE	36	12" leads	10.19	9.18	8.99	8.57
303394CM	Fulltech	UF80A11STL	115	3.15 x 3.15 x 1.50	25	Sleeve	100	11.5	UL/CUL/TUV/CE	32	Terminals	8.95	8.15	7.37	6.70
75459CM	Sunon	SF11592A-1092HBT	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	Terminals	15.95	14.39	12.95	11.65
75432CM	Sunon	SF11592A-1092HSL	115	3.63 x 3.63 x 1.00	36	Sleeve	130	12	UL/CSA/TUV/CE	39	12" leads	13.55	12.19	10.99	9.85
303466CM	Sunon	SF11592A-1092HBL	115	3.63 x 3.63 x 1.00	37	Ball	110	12	UL/CSA/TUV/CE	40	12" leads	15.95	14.39	12.95	11.65
124062CM	Sunon	SP101AT1122HBT	115	4.68 x 4.68 x 1.00	78	Ball	180	18	CSA/TUV/CE	46	Terminals	13.49	10.95	9.89	9.19
303407CM	Sunon	SP100A-1123XBL	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CSA/TUV/CE	47	12" leads	14.95	13.95	12.95	11.95
303415CM	Common Wealth	FP108-1-S1-B/W	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	12" leads	16.95	15.29	13.75	12.39
303482CM	Fulltech	UF12A11SWL	115	4.68 x 4.68 x 1.50	82	Sleeve	150	12	UL/CUL/TUV/CE	38	12" leads	12.85	11.54	10.77	10.23
303440CM	Fulltech	UF12A11BWL1	115	4.68 x 4.68 x 1.50	64	Ball	80	115	UL/CSA/TUV/CE	37	12" leads	13.45	12.15	10.95	9.85
303360CM	Fulltech	UF12A11BTL1	115	4.68 x 4.68 x 1.50	64	Ball	80	15	UL/CUL/TUV/CE	37	Terminals	12.85	11.54	10.76	10.23
300791CM	Fulltech	UF12A11STL	115	4.68 x 4.68 x 1.50	81	Sleeve	150	15	UL/CUL/TUV/CE	38	Terminals	10.95	9.84	9.51	9.19
111894CM	Common Wealth	FP108-1-S1/W	115	4.68 x 4.68 x 1.50	105	Sleeve	180	17	UL/CSA/CE	47	12" leads	14.75	13.19	11.95	10.79
106585CM	Common Wealth	FP108-1-S1/T	115	4.68 x 4.68 x 1.50	105	Sleeve	180	12	UL/CSA/CE	47	Terminals	15.95	14.39	12.95	11.65
16934CM	Common Wealth	FP108-1-S1-B	115	4.68 x 4.68 x 1.50	105	Ball	200	17	UL/CSA/TUV/CE	47	Terminals	16.95	15.29	13.75	12.39
212599CM	Fulltech	UF12A11BWH	115	4.68 x 4.68 x 1.50	106	Ball	190	15	UL/CUL/TUV/CE	46	12" leads	12.95	11.95	10.95	9.95
275792CM	Sunon	SP101A-1123HBT	115	4.68 x 4.68 x 1.50	107	Ball	180	18	UL/CUL/CE	50	Terminals	13.45	11.21	9.88	9.19
206308CM	Adda	AA1281UB-AT	115	4.68 x 4.68 x 1.50	107	Ball	230	24	UL/CUL/CE	48	Terminals	14.95	13.46	10.76	8.07
102883CM	Sunon	SP100A-1123XBT	115	4.68 x 4.68 x 1.50	117	Ball	240	20	UL/CUL/TUV/CE	50	Terminals	14.95	13.95	12.95	11.95
108724CM	Fulltech	UF15AC11BTH	115	6.75 x 5.90 x 1.50	211	Ball	230	28	UL/CUL/TUV/CE	58	Terminals	27.95	25.16	20.12	17.91
212581CM	Fulltech	UF15PC11BWH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	UL/CUL/TUV/CE	58	12" leads	25.65	23.09	20.68	19.65
189683CM	Fulltech	UF15PC11BTH	115	6.75 x 5.90 x 2.00	226	Ball	250	30	CSA	58	Terminals	29.95	26.96	21.56	19.15
355629CM	Fulltech	UF-80A23-BTH	220	3.15 x 3.15 x 1.50	30	Ball	60	12	UL/CSA/VDE/CE	36	Terminals	11.39	10.26	9.75	9.26
100917CM	Sunon	SF23080A/2083HSL	220	3.15 x 3.15 x 1.50	30	Sleeve	60	13.5	UL/CSA/TUV/CE	35	12" leads	10.49	8.39	7.55	6.40
209365CM	Bi-Sonic	4C-230LB	220	4.68 x 4.68 x 1.50	63	Ball	60	9	TUV/CE	34	10" leads	12.95	11.66	9.32	8.01
302244CM	Rotron	28023	220	4.68 x 4.68 x 1.50	88	Ball	130	28.6	UL/CSA	50.7	Terminals	17.19	15.49	12.38	9.29
303458CM	Sunon	DP200A-2123XBL	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	12" leads	15.95	14.39	12.95	11.65
102891CM	Sunon	DP200A-2123XBT	220	4.68 x 4.68 x 1.50	117	Ball	120	21	UL/CSA/TUV/CE	50	Terminals	15.95	14.39	12.95	11.65

Blue Part No. = Limited Quantity Available

## Fan Guards, Filters and Power Cords

Compatible with DC and AC Fans – pages 212-214

- All guards and filters fit all fans by matching the size dimension. Example: P/N 300556CM fan (3.15") matches P/N 31923CM metal guard (3.15").



Part No.	Description	Quantity SAVE	1	10	100	250
123502CM	1.60" metal (chrome) guard		\$ .49	\$ .43	\$ .39	\$ .35
120037CM	2.36" metal (chrome) guard	SALE	.79	.71	.59	.53
687666CM	2.36" steel (anodized) guard		.95	.85	.74	.59
31923CM	3.15" metal (chrome) guard		.79	.65	.51	.44
123511CM	3.63" metal (chrome) guard		.99	.78	.67	.53
25734CM	4.68" metal (chrome) guard		1.09	.98	.88	.79
138561CM	3.15" plastic guard with mesh		1.39	1.25	1.15	.95
229665CM	3.63" plastic guard with mesh		1.75	1.55	1.25	.95
196817CM	4.68" plastic guard with mesh		1.95	1.55	1.39	1.25
138579CM	3.15" alum. washable filter		2.95	2.66	2.12	1.59
130104CM	4.68" alum. washable filter		3.49	3.19	2.75	2.49

## Fan Power Cords: 24" Straight and Right-Angle

- Cord type: SPT-1 (2) conductor black • Voltage rating: 300V • Temperature range: 60°C • Fits all terminal fans

Part No.	Description	Length	1	10	100	250
28564CM	Straight socket cord	24"	\$ .99	\$ .88	\$ .70	\$ .62
104192CM	90° angle socket cord	24"	SALE .99	.88	.71	.70



RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## 30-Watt Open Frame, Low Leakage

### MPS-30 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- -10°C to + 50°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specs.
- Load regulation: ±1.0%
- Line regulation: ±1.0%
- Inrush current: 35A @ 120VAC
- Leakage current: 0.3mA @ 240V
- Isolation voltage: 4000VAC
- Mounting holes: 3.74"L x 2.02"W x 0.12"Dia.
- 2.9 watts/in<sup>3</sup> maximum
- Mating connectors: P/Ns 104723CM & 104432CM, pg 133
- Three-year warranty • Weight: 0.3 lbs.
- Size: 4.0"L x 2.59"W x 0.98"H

The Mean Well MPS-30 medical power supplies are low cost, high reliability open frame power supplies that feature a low leakage current of 0.3mA@240VAC. Other features of this open frame power supply are: universal input of 88-264VAC as well as 120-370VDC for battery-supported applications. Protections include short-circuit, overload, and over-voltage. They are UL and TUV approved, and carry a CE mark for use worldwide.



## 45 & 65-Watt Open Frame, Low Leakage

### MPS-45 & MPS-65 Series: Single Output

- 100% full load burn-in test
- Universal AC input
- High-efficiency, low heat generation
- Isolation voltage: 4000VAC
- 2.9 watts/in<sup>3</sup> max.
- Voltage adjustment: 10%
- -10°C to + 60°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specs.
- Leakage current: 0.3mA @ 240V
- Inrush current: 20A @ 120VAC
- Line regulation: ±1.0%
- Load regulation: ±2.0%, except 221057CM, 221145CM: ±3.0%
- Soft-start circuit, limiting AC surge current
- Mating connectors: P/Ns 104432CM and 104731CM, pg 133
- Mounting holes: 4.55"L x 2.55"W x 0.14"Dia.
- Three-year warranty • Weight: 0.6 lbs.
- Size: MPS-45: 5.0"L x 3.0"W x 1.06"H; MPS-65: 5.0"L x 3.0"W x 1.65"H

The MeanWell MPS-45 & MPS-65 medical power supplies are low cost, high reliability open frame power supplies. Other features of these power supplies are: universal input of 88-264VAC, as well as 120-370VDC for battery-applications. Full rated power is available with 18CFM forced air convection applied. Protections include short-circuit, overload, and over-voltage.



For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
220986CM	Mean Well	MPS-30-12	+12V@0-2.5A	30.0W	88-264@47-63	120	UL/CUL/TUV/CE	\$34.95	\$31.46	\$28.31
221057CM	Mean Well	MPS-45-7.5	+7.5V@0-5.4A	40.5W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	27.79
221065CM	Mean Well	MPS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221081CM	Mean Well	MPS-45-15	+15V@0-3A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	29.71	22.28
221111CM	Mean Well	MPS-45-48	+48V@0-1A	48.0W	90-264@47-440	100	UL/CUL/TUV/CE	34.95	31.46	28.31
221145CM	Mean Well	MPS-65-7.5	+7.5V@0-8A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221153CM	Mean Well	MPS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	32.36	29.12
221161CM	Mean Well	MPS-65-13.5	+13.5V@0-4.7A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	33.95	29.59	25.75
221188CM	Mean Well	MPS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	35.95	30.56	22.92
221209CM	Mean Well	MPS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	26.95	24.29

\* Primary Output

Blue Part No. = Limited Quantity Available

Call for special versions and large quantities

## Medical Table-Top and Wall Switching AC-to-DC Power Supplies

See page 237



## 3-Conductor Power Cords

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C

See pgs 248 & 249 for more Power Cords



### With Pigtail

Cord w/ Pigtail (Fig. 1)

Hospital Grade (Fig. 2)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100
38009CM	17237	.31	1	6'	Gray	18/3	SVT	\$2.39	\$2.15	\$1.72	\$1.29
37997CM	17236	.30	1	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99

### With Hospital Grade Male (green dot)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	1	10	50	100
132011CM	17006G	.82	2	10'	Gray	16/3	SJT	\$8.45	\$7.61	\$6.84	\$6.16
265412CM	EXITOW	.70	2	10'	Gray	18/3	SJT	7.35	6.65	5.95	5.39
115078CM	17006	.84	2	10'	Black	16/3	SJT	8.95	8.09	7.25	6.55

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## Ultraminiature 5 to 20-Watt Power Supplies

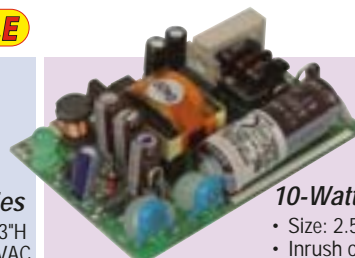
- Working temp.: -10 to 60°C
- UL/CUL/TUV/CE
- High reliability, low-cost
- Free air cooling convection
- Universal AC input/full range
- Short circuit/overload/over-voltage/over-temperature protection
- 100% full burn-in test
- Fixed switching frequency @ 100kHz
- Two year warranty

**SALE**



### 5-Watt OFM-5000 Series

- Size: 2.28"L x 1.77"W x 0.83"H
- Inrush current: 20A @ 115VAC
- Pin-mount



### 10-Watt OFM-0100 Series

- Size: 2.56"W x 1.77"L x 0.83"H
- Inrush current: 25A @ 115VAC
- Pin-mount



### 15-Watt OFM-1500 Series

- Size: 2.76"L x 1.89"W x 0.83"H
- Inrush current: 25A @ 115VAC
- Pin-mount



### 20-Watt OFM-0200 Series

- Size: 3.50"L x 2.00"W x 0.78"H
- Inrush current: 25A @ 115VAC
- Chassis mount

**SALE**

**Quantity SAVE**

Jameco Part No.	Cross Ref. Number	Output		Load Regulation	Line Regulation	Ripple & Noise (mV p-p)	Pricing		
		Voltage@Current (min-max)	Power				1	10	25
300281CM	OFM-5001	+5V@0-1A	5W	±2%	±0.5%	50	\$30.39	\$28.50	\$27.08
300409CM	OFM-5002	+12V@0-0.42A	5W	±1%	±0.3%	150	27.35	25.65	24.35
300417CM	OFM-5003	+15V@0-0.33A	5W	±1%	±0.3%	150	20.85	18.99	17.23
300425CM	OFM-5005	+24V@0-0.23A	5W	±0.5%	±0.2%	240	27.35	25.65	24.35
300433CM	OFM-0101	+5V@0-2A	10W	±2%	±0.5%	50	27.35	24.85	22.60
300450CM	OFM-0103	+15V@0-0.67A	10W	±1%	±0.3%	180	25.85	23.49	21.33
300468CM	OFM-0105	+24V@0-0.42A	10W	±0.5%	±0.2%	240	25.85	23.49	21.33
300476CM	OFM-1501	+5V@0-3A	15W	±2%	±0.5%	60	29.95	27.25	24.74
300484CM	OFM-1502	+12V@0-1.25A	15W	±1%	±0.3%	150	40.85	34.75	26.05
300492CM	OFM-1503	+15V@0-1.0A	15W	±1%	±0.3%	150	29.95	27.25	24.74
300513CM	OFM-0201	+5V@0-4.4A	20W	±2%	±0.5%	50	33.39	30.35	27.59
300521CM	OFM-0202	+12V@0-1.8A	20W	±1%	±0.3%	150	43.69	40.85	38.81
300530CM	OFM-0203	+15V@0-1.4A	20W	±1%	±0.3%	150	43.69	37.15	27.85
300548CM	OFM-0205	+24V@0-0.92A	20W	±0.5%	±0.2%	240	49.39	46.19	43.85

Blue Part No. = Limited Quantity Available

## 15 & 25-Watt Open Frame

Enclosed Power Supplies on pages 221-228.

### PSA15 & PSA25 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Line regulation: ±1.0%
- Isolation voltage: 3,000 VAC
- Voltage adjustment: 5% (PSA15 only)
- Inrush current: 30A @ 120VAC
- Temperature: 0° to +40°C
- Universal input
- One-year warranty
- Size: 4.33"L x 1.57"W x 0.91"H, except 230536CM 3.6"L x 2.5"W x 1.1"H



PSA25



PSA15



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
229041CM	Phihong	PSA15LN3-050	+5V@0-3A	15W	90-264@47-63	50	UL/CUL/TUV/CE	\$19.95	\$18.95	\$18.19
229060CM	Phihong	PSA15LN3-120	+12V@0-1.25A	15W	90-264@47-63	120	UL/CUL/TUV/CE	17.95	16.95	16.19
230536CM	Phihong	PSA25L-301	+5V@0.2-2A; +12V@0.1-1A; -12V@0-0.3A	25W	90-264@47-63	50	UL/CUL/TUV/CE	23.49	21.15	18.99

\* Primary Output



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# 25 to 45W Open-Frame Switching AC-to-DC Power Supplies

## 25-Watt Open Frame

### PS-25 & PD-25 Series: Single & Dual Outputs

- 100% full-load burn-in
- Inrush current: 40A @ 120VAC
- Size: 4.20"L x 2.40"W x 1.10"H
- -10°C to +60°C working temp
- Universal AC input
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

Part Number	Load Reg. (±%)	Line Reg. (±%)	Part Number	Load Reg. (±%)*	Line Reg. (±%)*	Part Number	Load Reg. (±%)*	Line Reg. (±%)*
212361CM	2.5	0.5	216768CM	1.0	0.3	212337CM	1.0	0.5
212353CM	2.0	0.5	212345CM	0.5	0.2	212329CM	1.0	0.5
392825CM	2.0	0.5	392817CM	0.5	0.2	394249CM	4.0	2.0
148603CM	1.0	0.3	212311CM	4.0	1.0	148689CM	3.0	0.5
392809CM	1.0	0.3						

\* Primary Output



## 40-Watt Open Frame

### NFS-40 Series: Single & Triple Outputs

- 100% full-load burn-in
- Universal AC input
- 50 watts with 20 CFM of air
- No minimum load required
- Load regulation: ±2.0%
- Line regulation: ±0.2%
- Inrush current: 12A @ 120VAC
- 0° to +70°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Voltage adjustment: 5%
- Mating connectors: P/Ns 104432CM & 104731CM, pg 133
- Size: 5.0"L x 3.0"W x 1.2"H
- Two-year warranty



## 25-Watt Open Frame

### NLP-25 Series: Single & Triple Outputs

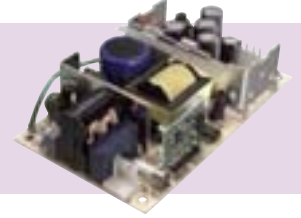
- 100% full-load burn-in
- 3.3 watts/in<sup>3</sup> maximum
- Load regulation: ±2.0%
- 0°C to +50°C working temperature
- Size: 4.0"L x 2.07"W x 0.91"H
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Universal AC input
- Line regulation: ±2.0%
- Two-year warranty



## 45-Watt Open Frame

### PSA45 Series: Single & Triple Outputs

- Load regulation: ±2.0%
- Inrush current: 20A @ 120VAC
- Size: 5.0"L x 3.0"W x 1.2"H
- Line regulation: ±2.0%
- Temperature: 0° to +50°C
- Weight: 0.9 lbs.
- Universal input
- One-year warranty



Enclosed Power Supplies on pages 221-228.

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
212361CM	Mean Well	PS-25-3.3	+3.3V@0-5A	16.5W	85-264@47-63	80	UL/CUL/TUV/CE	\$17.95	\$16.95	\$16.19
212353CM	Mean Well	PS-25-5	+5V@0-5A	25.0W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
392825CM	Mean Well	PS-25-7.5	+7.5V@0-3.3A	24.8W	85-264@47-63	80	UL/CUL/TUV/CE	18.95	18.26	17.58
148603CM	Mean Well	PS-25-12	+12V@0-2.1A	25.2W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	18.26	17.58
392809CM	Mean Well	PS-25-13.5	+13.5V@0-1.9A	25.7W	85-264@47-63	100	UL/CUL/TUV/CE	18.95	18.26	17.58
216768CM	Mean Well	PS-25-15	+15V@0-1.7A	25.5W	85-264@47-63	100	UL/CUL/TUV/CE	16.95	16.10	15.30
212345CM	Mean Well	PS-25-24	+24V@0-1A	24.0W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	18.26	17.58
392817CM	Mean Well	PS-25-27	+27V@0-0.9A	24.3W	85-264@47-63	240	UL/CUL/TUV/CE	18.95	18.26	17.58
212311CM	Mean Well	PD-2505	+5V@0.1-3A; -5V@0.1-2.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	19.95	18.95	17.95
212337CM	Mean Well	PD-25A	+5V@0.2-2.5A; +12V@0.1-1.5A	25.0W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
212329CM	Mean Well	PD-25B	+5V@0.2-2A; +24V@0.1-1A	25.2W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
394249CM	Mean Well	PD-2503	+3.3V@0.2-5A; +5V@0.1-4A	24.9W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
148689CM	Mean Well	PD-2512	+12V@0.1-1.2A; -12V@0.1-1A	24.0W	85-264@47-63	50	UL/CUL/TUV/CE	20.69	19.95	18.31
229075CM	Phihong	PSA45-050	+5V@0-8A	40.0W	90-264@47-63	50	UL/CSA/TUV/CE	21.95	20.83	19.59
229091CM	Phihong	PSA45-120	+12V@0-4A	48.0W	90-264@47-63	120	UL/CSA/TUV/CE	26.95	25.65	24.35
229121CM	Phihong	PSA4531	+5V@0-4A; +12V@0-1.5A; -12V@0-0.5A	44.0W	90-264@47-63	50	UL/CSA/TUV/CE	31.95	28.79	25.89
229140CM	Phihong	PSA4534	+5V@0-4A; +15V@0-1.2A; -15V@0-0.5A	45.5W	90-264@47-63	50	UL/CSA/TUV/CE	29.95	27.38	24.80

\* Primary Output

Blue Part No. = Limited Quantity Available

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty



Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
218499CM	Artesyn	NLP25-7624	+24V@0-1.04A	25.0W	85-264@47-440	4.0x2.1x0.9	3.7x1.8x0.13	150	2.0	2.0	UL/CSA/DE/CE	\$28.95	\$26.32	\$23.92
218501CM	Artesyn	NLP25-7608	+5V@0.2-2A; +12V@0.1-0.8A; -12V@0-0.1A	20.8W	90-264@47-440	4.0x2.1x0.9	3.7x1.8x0.13	50	2.0	2.0	UL/CSA/DE/CE	29.09	26.45	24.05
218510CM	Artesyn	NFS40-7605	+5.1V@0-6A	30.6W	85-264@47-440	5.0x3.0x1.2	4.6x2.6x0.16	100	2.0	0.2	UL/CSA/DE/CE	17.05	15.35	13.06
210841CM	Power-One	MAP42-1005	+5V@0-8A	40.0W	120-240@50-60	5.0x3.0x1.3	4.6x2.6x0.16	50	1.0	0.2	UL/CSA/TUV/CE	17.95	15.29	11.44
664270CM	Power-One	MAP40-3100	+5V@3A; +12V@2A; -12V@0.3A	40.0W	85-264@47-63	5.0x3.0x1.2	4.6x2.6x0.16	50	2.0	0.2	UL/CSA/TUV/CE	39.95	34.95	29.95
622539CM	Phihong	PSA-4034	+5.1V@5-3A; +15V@2-2A; -15V@0.5A	40.0W	90-264@47-63	5.0x3.0x1.2	4.5x2.6x0.16	50	—	—	UL/CSA/DE/CE	24.95	21.21	15.95

\* Primary Output

Blue Part No. = Limited Quantity Available

RoHS compliant product
 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.
 This product has a RoHS equivalent, manufacturer may vary.

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242

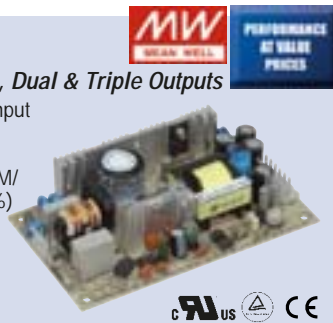
# 45 to 65-Watt Open-Frame Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 45-Watt Open Frame

PS-45, PD-45 & PT-45 Series: Single, Dual & Triple Outputs

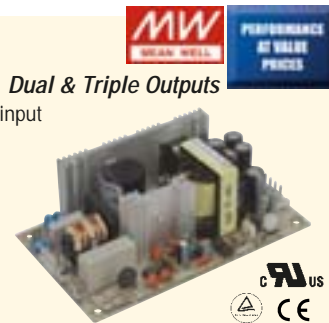
- 100% full-load burn-in • Universal AC input
- Voltage adjustment: 10%
- Inrush current: 20A @ 120VAC
- Load regulation:  $\pm 3.0\%$  (except 213727CM/213719CM/374352CM/374361CM:  $\pm 2.0\%$ )
- Line regulation:  $\pm 1.0\%$
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.06"H
- -10° to +60°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 65-Watt Open Frame

PS-65, PD-65 & PT-65 Series: Single, Dual & Triple Outputs

- 100% full-load burn-in • Universal AC input
- Voltage adjustment: 10%
- Line & load regulation:  $\pm 1.0$  to  $\pm 4.0\%$
- -10°C to +60°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- In-rush current: 20A @ 120VAC
- Two-year warranty
- Size: 5.0"L x 3.0"W x 1.65"H
- Weight: 0.6 lbs.



## 65-Watt Open Frame

- 100% full burn-in tested
- Short circuit/overload/over-voltage protection
- Line regulation:  $\pm 1.0\%$
- Working temperature: -20°C to +60°C
- Two-year warranty
- Mating connectors: P/Ns 236152CM & 236187CM, pg 134
- Universal AC input
- Input: 90-264VAC @ 47-440Hz; 127-370VDC
- Load regulation:  $\pm 2.0\%$
- Size: 5.0"L x 2.0"W x 1.1"H
- See [www.Jameco.com](http://www.Jameco.com) for specifications

RPD-65 Series: Dual Output • 60W free air convection; 77W with 18 CFM forced air

RPT-65 Series: Triple Output • 60W free air convection; 77W with 18 CFM forced air



Enclosed Power Supplies  
on pages 221-228.

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.		Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
				Voltage@Current (min-max)	Power				1	10	25
217331CM	Mean Well	PS-45-5	+5V@0-8A	40.0W	90-264@47-440	100	UL/CUL/TUV/CE	\$22.95	\$19.51	\$17.29	
213727CM	Mean Well	PS-45-12	+12V@0-3.7A	44.4W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85	
374352CM	Mean Well	PS-45-15	+15V@0-3.5A	45.0W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85	
213719CM	Mean Well	PS-45-24	+24V@0-1.9A	45.6W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85	
374361CM	Mean Well	PS-45-27	+27V@0-1.95A	45.9W	90-264@47-440	100	UL/CUL/TUV/CE	27.95	21.99	19.85	
194861CM	Mean Well	PD-45A	+5V@0.4-3.2A; +12V@0.2-2	40.0W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21	
194870CM	Mean Well	PD-45B	+5V@0.4-3.2A; +24V@0.2-1.2A	44.8W	90-264@47-440	50	UL/CUL/TUV/CE	24.95	22.46	20.21	
88401CM	Mean Well	PT-45B	+5V@0.4-3A; +12V@0.2-2A; -12V@0-0.3A	45.0W	90-264@47-440	50	UL/CUL/TUV/CE	29.95	23.09	20.89	
201937CM	Mean Well	PS-65-5	+5V@0-12A	60.0W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
148638CM	Mean Well	PS-65-12	+12V@0-5.2A	62.4W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
374379CM	Mean Well	PS-65-13.5	+13.5V@0-5.4A	63.5W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
216750CM	Mean Well	PS-65-15	+15V@0-4.2A	63.0W	90-264@47-440	100	UL/CUL/TUV/CE	24.95	21.21	15.91	
148646CM	Mean Well	PS-65-24	+24V@0-2.7A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
201945CM	Mean Well	PS-65-27	+27V@0-2.4A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
201953CM	Mean Well	PS-65-48	+48V@0-1.35A	64.8W	90-264@47-440	100	UL/CUL/TUV/CE	29.95	25.29	21.99	
194888CM	Mean Well	PD-65A	+5V@0.4-7A; +12V@0.2-3.2A	61.1W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09	
194896CM	Mean Well	PD-65B	+5V@0.4-3.5A; +24V@0.2-2A	65.5W	90-264@47-440	50	UL/CUL/TUV/CE	34.95	26.39	23.09	
216733CM	Mean Well	PT-65B	+5V@0.4-5.5A; +12V@0.2-2.5A; -12V@0-0.5A	63.5W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29	
216725CM	Mean Well	PT-65C	+5V@0.4-5.5A; +15V@0.2-2A; -15V@0-0.5A	65.0W	90-264@47-440	50	UL/CUL/TUV/CE	36.95	28.59	25.29	
394222CM	Mean Well	PT-6503	+3.3V@0-7A; +5V@0.2-10A; +12V@0-1.2A	61.8W	90-264@47-63	50	UL/CUL/TUV/CE	51.35	48.45	45.99	
668781CM	Mean Well	RPD-65C	+5V@0-1.5A; +12V@0-5.8A	60.0W	90-264@47-440	120	UL/CUL/TUV/CE/CB	35.35	33.19	31.35	
668799CM	Mean Well	RPD-65D	+5V@0-1.5A; +24V@0-2.9A	60.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	35.35	33.19	31.35	
668801CM	Mean Well	RPT-65E	+5V@0-1.5A; +12V@0.18-5.8A; -5V@0-0.7A	62.5W	90-264@47-440	120	UL/CUL/TUV/CE/CB	37.65	35.45	33.45	
668810CM	Mean Well	RPT-65F	+5V@0-1.5A; +12V@0.18-5.8A; -12V@0-0.7A	66.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	37.65	35.45	33.45	
668828CM	Mean Well	RPT-65G	+5V@0-1.5A; +12V@0-0.7A; +24V@0.09-2.9A	66.0W	90-264@47-440	150	UL/CUL/TUV/CE/CB	37.65	35.45	33.45	

\* Primary Output

Blue Part No. = Limited Quantity Available

Call for special versions and large quantities

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

SALE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
673934CM	Martek	PVI-50-46BUB	+5V/6.5; +3.3/2.5; +12/0.8; -12/0.5	57.0W	100-240@50-60	8.1x3.2x1.5	—	—	—	—	UL/CUL/CSA/TUV/CE	\$15.95	\$13.95	\$11.49
218561CM	Artesyn	NLP65-7605	+5V@0-13A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/VDE/CE	4.89	4.39	3.95
169068CM	Autec	UPS65-1051	+5V@0.2-13A	65.0W	115/230@50-60	6.0x3.5x1.5	4.8x3.2x0.16	50	1.0	0.5	UL/CSA/VDE	4.89	4.16	3.12
171731CM	Delta	DPS-60MPB	+3.3V@0.8-8A; +5V@1-9A;	65.0W	90-270@47-63	5.8x3.3x1.4	—	50	2.0	2.0	UL/CUL/TUV	7.95	6.76	5.07
235088CM	Artesyn	NLP65-7629	+5V@0-7A; +12V@0-2.5A -12V@0.8A	65.0W	85-264@47-63	5.0x3.0x1.3	4.6x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/CE	28.35	25.75	23.45

\* Primary Output

Blue Part No. = Limited Quantity Available

Commercial Customers

Open an account with us to consolidate your monthly billing and to save time. 1-800-831-4242

RoHS compliant product

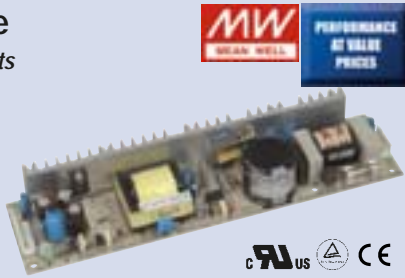
This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## 75-Watt Open Frame

### LPS-75 Series: Single Outputs

- 100% full-load burn-in
- Universal AC input
- Built-in remote ON/OFF
- Line regulation:  $\pm 1.0\%$
- Load regulation:  $\pm 2.0\%$
- Voltage adjustment: 10%
- Inrush current: 24A @ 120VAC
- -20°C to +60°C working temp.
- Two-year warranty
- Size: 8.74"L x 2.16"W x 1.18"H • Weight: 0.5 lbs.
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Open Frame with Power Factor Correction

### LPP-100 Series: Single Output

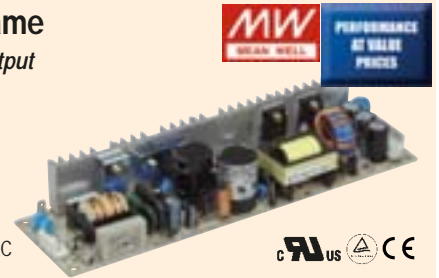
- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- 4.4 watts/in<sup>2</sup> maximum
- Load regulation:  $\pm 0.5\%$
- Line regulation:  $\pm 0.5\%$
- Isolation voltage: 3000VAC
- Inrush current: 40A @ 120VAC
- Voltage adjustment: 10% • Leakage current: 2.0mA @ 240V
- Three-year warranty • Weight: 0.8 lbs. • Size: 8.75"L x 2.44"W x 1.25"H
- Mounting holes: 8.34"L x 2.04"W x 0.13"Dia.
- Mating connectors: P/Ns 215950CM & 215976CM, pg 133
- -10°C to +60°C working temperature • See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Open Frame

### LPS-100 Series: Single Output

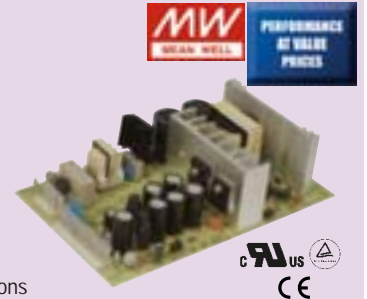
- 100% full-load burn-in
- Auto-switch AC input
- No minimum load required
- Load regulation:  $\pm 1.5\%$ , except 173463CM:  $\pm 0.5\%$
- Line regulation:  $\pm 0.5\%$
- Voltage adjustment: 10%
- Inrush current: 30A @ 120VAC
- Three-year warranty
- Size: 8.74"L x 2.44" x 1.25"W • Weight: 0.8 lbs.
- -10°C to +60°C working temperature • See [www.Jameco.com](http://www.Jameco.com) for specifications



## 110-Watt Open Frame

### PD-110B: Dual Output

- 100% full-load burn-in
- Universal AC input
- Cooling by free air convection
- Load and line regulation:  $\pm 1.0\%$
- Ripple and noise: 100mVp-p
- Short circuit/overload/over-voltage protection
- Size: 7.0"L x 4.3"W x 1.8"H
- Working temperature: -10°C to +50°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications



Save Big! Special Values!










Sale Priced Items = Yellow Exceptional Quantity Discounts = Green

Enclosed Power Supplies on pages 221-228.

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

**SALE**

on pages 221-226.

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing			
			Voltage@Current (min-max)	Power				1	10	25	
244726CM	Mean Well 	LPS-75-24	+24V@0-3.5A		76.8W	90-264@47-63	120	UL/CUL/TUV/CE	\$34.95	\$31.45	\$28.31
173471CM	Mean Well 	LPS-100-12	+12V@0-8.4A		100.8W	88-264@47-63	100	UL/CUL/TUV/CE	52.95	48.39	42.89
374344CM	Mean Well 	LPS-100-13.5	+13.5V@0-7.5A		101.3W	88-264@47-63	100	UL/CUL/TUV/CE	49.95	47.45	45.09
173463CM	Mean Well 	LPS-100-24	+24V@0-4.2A		100.8W	88-264@47-63	150	UL/CUL/TUV/CE	52.95	48.39	42.89
216709CM	Mean Well 	LPS-100-48	+48V@0-2.1A		100.8W	88-264@47-63	200	UL/CUL/TUV/CE	52.95	48.39	42.89
216688CM	Mean Well 	LPP-100-12	+12V@0-8.5A		102.0W	85-264@47-63	100	UL/CUL/TUV/CE	57.39 49.95	47.45	45.09
204610CM	Mean Well 	LPP-100-24	+24V@0-4.2A		100.8W	85-264@47-63	150	UL/CUL/TUV/CE	60.95	54.89	44.79
375056CM	Mean Well 	PD-110B	+5V@0.5-5A; +24V@0.5-3.5A		109.0W	100-264@47-63	100	UL/CUL/TUV/CE	62.69	58.90	55.96

\* Primary Output

Call for special versions and large quantities

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

**SALE**

Quantity SAVE

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.")	Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
226211CM	Phihong ✓	PSA-60-302	+5V@6A; +12V@1.2A; -12V@1.2A	60.0W	100-240@50-60	5.0x3.0x1.6	4.5x2.5x0.15	50	2.0	2.0	UL/CSA/VDE	\$29.95	\$25.46	\$19.09
215706CM	Mean Well ☺	PT-65D	+5V@0.5-4A; +12V@0.2-2A; +24V@0.2-1A	65.0W	90-264@47-440	5.0x3.0x1.5	4.6x2.6x0.15	50	2.0	1.0	UL/CUL/TUV/CE	24.95	22.45	20.19
229850CM	IPD Power ✓	SRW-65-3003	+5V@5A; +15V@3.5A; -15V@1A	65.0W	85-264@47-63	6.0x4.0x1.1	5.7x3.5x0.15	50	1.0	—	UL/CUL/TUV/CE	22.95	19.51	14.63
218915CM	Artesyn ☹	NLP110-9605	+5V@0.5-15A	75.0W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/VDE	19.95	17.95	16.15
218923CM	Artesyn ☹	NLP110-9612	+12V@0.3-6.4A	76.8W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	120	2.0	2.0	UL/CUL/CSA/VDE	17.99	15.26	14.50
218931CM	Artesyn ☹	NLP110-9624	+24V@0.2-3.2A	76.8W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	240	2.0	2.0	UL/CUL/CSA/VDE	46.79	40.30	30.23
202876CM	Power-One	MAP80-4003	+5V@14A; +15V@3.5A; -5V@1A; -15V@1A	80.0W	100-230@47-63	7.2x4.3x1.8	6.7x3.2x0.17	50	1.0	0.2	UL/CSA/TUV/CE	19.95	16.96	12.72
237024CM	Lite-On ✓	PA-1101-1	+12V@2-8.5A	102.0W	85-264@47-63	6.0x4.0x1.3	—	1200	10.0	1.0	UL/CUL/TUV/CE	19.95	16.96	12.72
218940CM	Artesyn ☹	NLP110-9693	+3.3V@0.2-13A; +5V@0.5-13A; +12V@0-0.65A	110.0W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	50	2.0	2.0	UL/CUL/CSA/VDE	40.45	35.95	26.95
218958CM	Artesyn	NLP110-9608	+5V@0.2-13A; +12V@0.2-6.5A; -12V@0-0.65A	110.0W	90-264@47-63	6.5x3.0x1.3	6.1x2.6x0.16	120	2.0	2.0	UL/CUL/CSA/VDE	47.19	42.49	38.25
645298CM	Mean Well ✓	PQ-100DTR	+5V@5A; +12V@2A; +24V@2A; -12V@.3A	103.0W	100-264@47-63	7.0x4.3x1.8	6.5x3.8x0.16	80	1.0	1.0	—	44.95	38.25	28.65

\* Primary Output

Blue Part No. = Limited Quantity Available

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

Color Code Legend  
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219

## 125-Watt Open Frame with Power Factor Correction

- 100% full-load burn-in
- Line regulation:  $\pm 0.5\%$
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Universal AC input
- Size: 5.0"L x 2.4"W x 1.4"H

### PPS-125 Series: Single Output

- Load regulation:  $\pm 1.0\%$
- -40° to +85°C working temperature

### PPT-125 Series: Triple Output

- Load regulation:  $\pm 3.0\%$
- -20° to +60°C working temperature



## 150-Watt Open Frame with Power Factor Correction

### LPP-150 Series: Single Output

- 100% full-load burn-in
- Voltage adjustment: 10%
- Line regulation:  $\pm 0.5\%$
- Auto-switch AC input
- Load regulation: 213680CM, 375064CM & 392771CM:  $\pm 1.0\%$ ; 213671CM, 216645CM & 392788CM:  $\pm 0.5\%$
- Mating connectors: P/N 215950CM & 215968CM, pg 133
- -10°C to +60°C working temp.
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 200-Watt Open Frame with Power Factor Correction

### PPS-200 Series: Single Output

- High efficiency up to 90% (typical)
- PWM control & regulated
- Free air convection for 150W; 20.5 CFM forced air for 200W
- Load regulation:  $\pm 1.0\%$ ; Line regulation:  $\pm 0.5\%$
- Short circuit/overload/over-voltage protection
- Mating connectors: P/N 236152CM & 236208CM, pg 134
- Working temperature: -20°C to +70°C (see [www.Jameco.com](http://www.Jameco.com) for specifications)
- Size: 5.0"L x 3.0"W x 1.4"H
- Three-year warranty



## 350-Watt Open Frame with Power Factor Correction

### USP-350 Series: Single Output

- Universal AC input/full range
- Free air convection for 300W; 23.5 CFM forced air for 350W
- Air surge current limiting
- Load regulation:  $\pm 1.0\%$ ; Line regulation:  $\pm 0.5\%$
- Short circuit/overload/over-voltage over-temperature protection
- Mating connectors: P/N 236267CM & (2) 236304CM, pg 134
- Working temperature: -10°C to +65°C (see [www.Jameco.com](http://www.Jameco.com) for specifications)
- Size: 9.3"L x 4.0"W x 1.5"H
- Three-year warranty



Enclosed Power Supplies on pages 221-228.

For Complete Specifications visit [www.Jameco.com](http://www.Jameco.com).

Jameco Part No.	Manufacturer	Product No.	Output		Input (VAC @ Hz)	Ripple & Noise (mV p-p)*	Certification	Pricing		
			Voltage@Current (min-max)	Power				1	10	25
374088CM	Mean Well	PPS-125-12	+12V@0-10.5A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	\$93.99	\$79.84	\$74.45
374096CM	Mean Well	PPS-125-15	+15V@0-8.4A	126.0W	90-264@47-63	100	UL/CUL/TUV/CE	93.99	79.84	74.45
301428CM	Mean Well	PPS-125-24	+24V@0-5.2A	124.8W	90-264@47-63	150	UL/CUL/TUV/CE	93.99	79.84	74.45
301487CM	Mean Well	PPT-125B	+5V@1-14.4A; +12V@.3-3.8A; -12V@.05-.63A	124.5W	90-264@47-63	100	UL/CUL/TUV/CE	103.55	79.86	74.45
301495CM	Mean Well	PPT-125C	+5V@1-13.8A; +15V@.25-3.1A; -15V@.05-.63A	125.1W	90-264@47-63	100	UL/CUL/TUV/CE	87.19	74.11	55.58
213680CM	Mean Well	LPP-150-12	+12V@0-12.5A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
392771CM	Mean Well	LPP-150-13.5	+13.5V@0-11.2A	151.2W	85-264@47-63	100	UL/CUL/TUV/CE	69.95	53.89	47.29
375064CM	Mean Well	LPP-150-15	+15V@0-10.0A	150.0W	85-264@47-63	100	UL/CUL/TUV/CE	68.45	64.60	61.37
213671CM	Mean Well	LPP-150-24	+24V@0-6.3A	150.0W	85-264@47-63	150	UL/CUL/TUV/CE	68.45	64.60	61.37
392788CM	Mean Well	LPP-150-27	+27V@0-5.6A	151.2W	85-264@47-63	150	UL/CUL/TUV/CE	69.95	53.89	47.29
216645CM	Mean Well	LPP-150-48	+48V@0-3.2A	153.6W	85-264@47-63	250	UL/CUL/TUV/CE	68.45	64.60	61.37
668705CM	Mean Well	PPS-200-5	+5V@0-36A	180.0W	90-264@47-63	80	UL/CUL/TUV/CE	109.89	99.69	94.15
668713CM	Mean Well	PPS-200-12	+12V@0-16.6A	199.2W	90-264@47-63	100	UL/CUL/TUV/CE	105.89	99.69	94.15
668721CM	Mean Well	PPS-200-15	+15V@0-13.3A	199.5W	90-264@47-63	100	UL/CUL/TUV/CE	158.95	149.65	141.35
668730CM	Mean Well	PPS-200-24	+24V@0-8.3A	199.2W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65	141.35
668748CM	Mean Well	PPS-200-27	+27V@0-7.4A	199.8W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65	141.35
668756CM	Mean Well	USP-350-48	+48V@0-7.3A	300.0W	90-264@47-63	150	UL/CUL/TUV/CE	158.95	149.65	141.35

\* Primary Output

Call for special versions and large quantities

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

SALE

Jameco Part No.	Mfr.	Product No.	Output		Input (VAC @ Hz)	Size Inches (LxWxH)	Mounting Holes (L"xW"xDia.)	Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power								1	10	25
670813CM	Intl. Power	PM110-13A	+15V@0-7.5A	110.0W	85-264@47-63	7.0x4.3x1.9	6.5x3.8x0.16	15	—	—	UL/CSA/TUV	\$59.95	\$50.99	\$38.22
218982CM	Artesyn	NFS110-7612	+12V@0-9A	108.0W	85-264@47-440	7.0x4.3x1.8	6.6x3.8x0.16	120	2.0	0.1	UL/CUL/CSA/VDE/CE	67.69	57.48	53.60
218991CM	Artesyn	NLP150L-96S3	+3.3V@1-22A	72.6W	90-264@47-63	6.8x3.8x1.3	6.5x3.5x0.16	50	2.0	2.0	UL/CSA/VDE/CE	21.59	18.21	15.83
219011CM	Artesyn	NLP150L-96S5	+5.1V@1-22A	112.2W	90-264@47-63	6.8x3.8x1.3	6.5x3.5x0.16	50	2.0	2.0	UL/CSA/VDE/CE	29.95	25.29	21.99
219002CM	Artesyn	NLP150L-96S8	+24V@0.15-4.6A	110.4W	90-264@47-63	6.8x3.8x1.3	6.5x3.5x0.16	240	2.0	2.0	UL/CSA/VDE/CE	39.55	35.57	32.05
196795CM	Cherokee	QP2A2-1A-A	+5V@40A; +12V@2.5A	230.0W	115/230@50-60	10.0x4.3x2.5	7.5x3.0x0.15	50	0.25	0.25	TUV	14.35	13.65	12.95
196461CM	TODD	MAX3541205AC	+5V@50A; +12V@12A; -5V@2A; -12V@4A	350.0W	115/230@50-60	9.0x5.0x2.5	6.5x3.9x0.08	50	1.0	1.0	TUV	47.95	40.79	30.59

♣ Pull = Extra Savings \* Primary Output ⚡ Blue Part No. = Limited Quantity Available

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♻ RoHS compliant product ⚡ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## 25-Watt Enclosed

### RS-25 Series: Single Output

- New smaller design: 3.0" x 2" x 1.1"
- 3.66 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitor
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CM, pg 160



CE CB

• Three-year warranty

## 25-Watt Enclosed

### S-25 Series: Single Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- 1.2 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: 103587CM, pg 160
- -10°C to +60°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Mounting hardware: use P/Ns 222121CM, 222172CM & 222164CM
- Two-year warranty

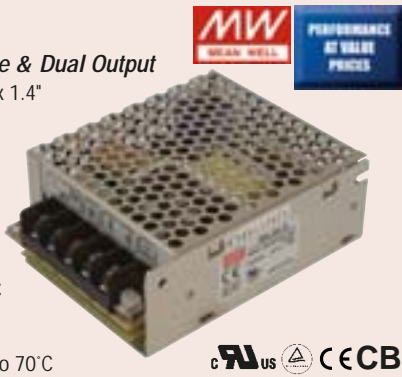


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## 35-Watt Enclosed

### RS-35 & RD-35 Series: Single & Dual Output

- New smaller design: 3.9" x 3.2" x 1.4"
- 2 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CM, pg 160



CE CB

• Three-year warranty

## 40-Watt Enclosed

### S-40 & T-40 Series: Single & Triple Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- 1.6 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Mating connector: P/N 103587CM, pg 160
- -10°C to +60°C working temperature
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- Mounting hardware: use P/Ns 222121CM, 222156CM & 222172CM
- Two-year warranty



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Open-Frame Power Supplies  
on pages 215-220.

For PC Power Supplies, see page 267.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323281CM	Mean Well	RS-25-5	+5V@0-5A	25.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$27.55	\$23.75	\$22.59
323299CM	Mean Well	RS-25-12	+12V@0-2.1A	25.2W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323301CM	Mean Well	RS-25-15	+15V@0-1.7A	25.5W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
323310CM	Mean Well	RS-25-24	+24V@0-1.1A	26.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	27.55	23.75	22.59
123246CM	Mean Well	S-25-5	+5V@0-5A	25.0W	50	1	0.5	UL/TUV/CE	39.95	32.10	28.90
123254CM	Mean Well	S-25-12	+12V@0-2.1A	25.2W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123262CM	Mean Well	S-25-15	+15V@0-1.7A	25.5W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
123271CM	Mean Well	S-25-24	+24V@0-1.1A	26.4W	100	0.5	0.5	UL/TUV/CE	39.95	32.10	28.90
323328CM	Mean Well	RS-35-5	+5V@0-7A	35.0W	80	1	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323336CM	Mean Well	RS-35-12	+12V@0-3A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323344CM	Mean Well	RS-35-15	+15V@0-2.4A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323352CM	Mean Well	RS-35-24	+24V@0-1.5A	36.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	34.25	28.55	27.15
323361CM	Mean Well	RD-35A	+5V@0.3-4A; +12V@0.2-1A	32.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
323379CM	Mean Well	RD-35B	+5V@0.3-4A; +24V@0.2-1.3A	51.2W	80	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	32.35	30.75
123289CM	Mean Well	S-40-5	+5V@0-8A	40.0W	75	1	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123297CM	Mean Well	S-40-12	+12V@0-3.5A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
202139CM	Mean Well	S-40-15	+15V@0-2.8A	42.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
123318CM	Mean Well	S-40-24	+24V@0-1.8A	43.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	44.95	38.60	34.70
201988CM	Mean Well	T-40A	+5V@0.6-3A; +12V@0.2-2A; -5V@0.1-0.5A	41.5W	100	0.5	0.5	CSA/CE	49.95	42.46	31.84
201996CM	Mean Well	T-40B	+5V@0.6-3A; +12V@0.2-2A; -12V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90
202008CM	Mean Well	T-40C	+5V@0.6-3A; +15V@0.2-1.5A; -15V@0.1-0.5A	45.0W	100	0.5	0.5	CSA/CE	49.95	42.10	37.90

Call for special versions and large quantities

\* Primary Output

Blue Part No. = Limited Quantity Available

## Power Cords

See pages  
248 & 249



## Jameco's Got The Docs

We offer free technical documents for most of the products we carry.  
Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com)



# 45 to 75-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend  
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## 50-Watt Enclosed

**RS-50, RD-50,  
RT-50, & RQ-50 Series:**  
**Single, Dual, Triple & Quad Output**

- New smaller design: 3.9" x 3.8" x 1.4"
- 2.4 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitors
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CM, pg 160
- Three-year warranty



UL US CE CB

## 60-Watt Enclosed

**S-60, D-60, T-60 & Q-60 Series:**  
**Single, Dual, Triple & Quad Outputs**

- 100% full-load burn-in
- 1.7 watts/in<sup>3</sup> maximum
- Voltage adjustment: 10%
- Universal AC input: 88-264VAC @ 47-63Hz, 120-370VDC
- Mating connector: P/N 103587CM, pg 160
- -10°C to +60°C working temperature
- Mounting hardware: use P/Ns 222130CM, 222156CM & 222172CM
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



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## 65-Watt Enclosed

**RD-65, RT-65 & RQ-65 Series:**  
**Dual, Triple & Quad Outputs**

- New smaller design: 5.1" x 3.9" x 1.5"
- 2.2 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- 105°C output capacitors
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- Cooling by free air convection
- High operating temperature up to 70°C
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103587CM, pg 160
- Three-year warranty



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## 75-Watt Enclosed with Power Factor Correction

**RS-75 Series: Single Output**

- New smaller design: 5.1" x 3.9" x 1.5"
- 2.5 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitor
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection
- High operating temperature up to 70°C
- Mating connector: 103587CM, pg 160
- Three-year warranty



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Open-Frame Power Supplies  
on pages 215-220.

For PC Power Supplies, see page 267.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323387CM	Mean Well	RS-50-5	+5V@0-10A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$37.05	\$31.35	\$29.79
323395CM	Mean Well	RS-50-12	+12V@0-4.2A	50.4W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323408CM	Mean Well	RS-50-15	+15V@0-3.4A	51.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323416CM	Mean Well	RS-50-24	+24V@0-2.2A	52.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	37.05	31.35	29.79
323424CM	Mean Well	RD-50A	+5V@0.3-6A; +12V@0.3-3A	54.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	39.95	34.25	32.55
323432CM	Mean Well	RD-50B	+5V@0.3-6A; +24V@0.2-2A	53.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	39.95	34.25	32.55
323441CM	Mean Well	RT-50A	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0.5-5A	46.5W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323459CM	Mean Well	RT-50B	+5V@0.5-5A; +12V@0.2-2.5A; -12V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323467CM	Mean Well	RT-50C	+5V@0-5A; +15V@0.2-2A; -15V@0.1-1A	50.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323475CM	Mean Well	RT-50D	+5V@0.5-5A; +12V@0.1-1A; +24V@0.2-1.5A	51.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	36.15	34.35
323483CM	Mean Well	RQ-50B	+5V@0.5-6A; +12V@0.2-1.5A; -5V@0-1A; -12V@0-1A	45.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323491CM	Mean Well	RQ-50D	+5V@0.5-6A; +12V@0.2-1.5A; +24V@0.1-1A; -12V@0-1A	53.4W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
123326CM	Mean Well	S-60-5	+5V@0-12A	60.0W	120	1	0.5	UL/CUL/TUV/CE/CB	53.95	48.55	42.99
123334CM	Mean Well	S-60-12	+12V@0-5A	60.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123342CM	Mean Well	S-60-15	+15V@0-4A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123351CM	Mean Well	S-60-24	+24V@0-2.5A	60.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	53.95	41.50	37.30
123457CM	Mean Well	D-60A	+5V@0.3-4A; +12V@0.2-3A	56.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	54.95	44.10	39.70
123465CM	Mean Well	D-60B	+5V@0.3-3A; +24V@0.2-1.8A	58.0W	75	0.5	0.5	UL/CUL/TUV/CE/CB	54.95	44.10	39.70
123481CM	Mean Well	T-60B	+5V@0.5-5A; +12V@0.2-2.5A; -5V@0-0.5A	61.0W	100	1	0.5	UL/CUL/TUV/CE/CB	57.95	47.00	42.30
123490CM	Mean Well	T-60C	+5V@0.5-5A; +15V@0.2-2A; -15V@0-0.5A	62.5W	100	1	0.5	UL/CUL/TUV/CE/CB	57.95	47.00	42.30
147045CM	Mean Well	Q-60B	+5V@0.5-5.5A; +12V@0.1-2A; -5V@0-0.5A; -12V@0-0.5A	60.0W	100	0.5	0.5	UL/CUL/CE/CB	59.95	49.90	44.90
323504CM	Mean Well	RD-65A	+5V@0.3-8A; +12V@0.2-4A	66.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323512CM	Mean Well	RD-65B	+5V@0.3-8A; +24V@0.2-3A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	43.75	37.05	35.25
323521CM	Mean Well	RT-65A	+5V@0.5-8A; +12V@0.2-3.5A; -5V@0-1A	66.1W	80	1	0.5	UL/CUL/TUV/CE/CB	42.79	40.65	38.65
323539CM	Mean Well	RT-65B	+5V@0.5-8A; +12V@0.2-3.5A; -12V@0-1A	64.6W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323547CM	Mean Well	RT-65C	+5V@0.5-8A; +15V@0.2-3A; -15V@0-1A	65.5W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323555CM	Mean Well	RT-65D	+5V@0.5-8A; +12V@0.1-1A; +24V@0.2-2A	68.0W	80	1	0.5	UL/CUL/TUV/CE/CB	47.55	39.95	37.95
323563CM	Mean Well	RQ-65B	+5V@0.5-8A; +12V@0.2-3A; -5V@0-1A; -12V@0-1A	62.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323571CM	Mean Well	RQ-65D	+5V@0.5-8A; +12V@0.2-3A; +24V@0.1-1.5A; -12V@0-1A	68.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	48.45	40.85	38.85
323580CM	Mean Well	RS-75-5	+5V@0-12A	60.0W	80	1	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323598CM	Mean Well	RS-75-12	+12V@0-6A	72.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323601CM	Mean Well	RS-75-15	+15V@0-5A	75.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39
323619CM	Mean Well	RS-75-24	+24V@0-3.2A	76.8W	120	0.5	0.5	UL/CUL/TUV/CE/CB	41.85	35.15	33.39

\* Primary Output

Blue Part No. = Limited Quantity Available

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## 75-Watt Enclosed with Power Factor Correction

**SP-75 & TP-75B Series: Single & Triple Output**

- 100% full-load burn-in • Universal AC input
- 2.1 watts/in<sup>3</sup> max.
- Voltage adjustment: 10%
- Input: 85-264VAC @ 47-63Hz, 120-370VDC
- No minimum load required
- Mating connector: P/N 103587CM, pg 160
- -10°C to +60°C working temperature
- Mounting hardware: use P/Ns 222156CM, 222164CM & 222172CM
- Three-year warranty • See [www.Jameco.com](http://www.Jameco.com) for specifications



## 85-Watt Enclosed with Power Factor Correction

**RD-85, RT-85 & RQ-85 Series: Dual, Triple & Quad Output**

- New smaller design: 6.3" x 3.8" x 1.5"
- 2.4 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- 105°C output capacitors • Three-year warranty
- Withstanding voltage of 300VAC surge input for 5 seconds
- Cooling by free air convection • High operating temperature up to 70°C
- Mating connector: 103587CM, pg 160 • See [www.Jameco.com](http://www.Jameco.com) for specs



## 100-Watt Enclosed

**RS-100 Series: Single Output**

- New smaller design: 7.8" x 3.9" x 1.5"
- 2.7 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz
- 105°C output capacitor
- Cooling by free air convection
- High operating temperature up to 70°C
- Short circuit/overload/over-voltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- Mating connector: 103587CM, pg 160 • Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Enclosed

**S-100F Series: Single Output**

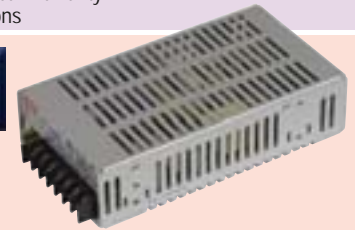
- 100% full-load burn-in • 2.3 watts/in<sup>3</sup> max.
- Voltage adjustment: 10%
- No minimum load required
- Universal AC input: 88-132/176-264VAC @ 47-63Hz
- Mating connector: P/N 103587CM, pg 160
- -10°C to +60°C working temperature
- Mounting hardware: use P/Ns 222130CM, 222156CM and 222172CM • Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 100-Watt Enclosed with Power Factor Correction

**SP-100 & TP-100 Series: Single & Triple Outputs**

- 100% full-load burn-in • Universal AC input: 86-264VAC @ 47-63Hz, 120-370VDC
- 2.3 watts/in<sup>3</sup> maximum • Voltage adjustment: 10%
- Mating connector: P/N 103587CM, pg 160 • Three-year warranty
- -10°C to +60°C working temperature • See [www.Jameco.com](http://www.Jameco.com) for specifications
- Mounting hardware use P/Ns 222130CM, 222164CM, 222156CM, 222172CM & 222181CM



Open-Frame Power Supplies  
on pages 215-220.

For PC Power Supplies, see page 267.

**SALE**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
194829CM	Mean Well	SP-75-5	+5V@0-15A	75.0W	80	1	0.5	UL/CUL/TUV/CE/CB	\$59.95	\$53.96	\$48.56
194837CM	Mean Well	SP-75-12	+12V@0-6.3A	75.6W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
194845CM	Mean Well	SP-75-15	+15V@0-5A	75.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
194853CM	Mean Well	SP-75-24	+24V@0-3.2A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	61.05	53.89
216805CM	Mean Well	SP-75-48	+48V@0-1.6A	76.8W	100	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	62.95	51.75
375048CM	Mean Well	TP-75B	+5V@1.5-10A; +12V@0.2-4A; -12V@0-0.6A	75.8W	100	3	1	UL/CUL/TUV/CE/CB	78.85	74.10	70.40
323627CM	Mean Well	RD-85A	+5V@2-10A; +12V@0.3-5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
323635CM	Mean Well	RD-85B	+5V@2-10A; +24V@0.3-2.5A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	52.25	49.65
323643CM	Mean Well	RT-85A	+5V@2-10A; +12V@0.3-4A; -5V@0-1A	84.5W	80	1	0.5	UL/CUL/TUV/CE/CB	51.89	47.19	42.89
323651CM	Mean Well	RT-85B	+5V@2-10A; +12V@0.3-4A; -12V@0-1A	88.0W	80	1	0.5	UL/CUL/TUV/CE/CB	59.89	56.89	54.05
323660CM	Mean Well	RT-85C	+5V@2-10A; +15V@0.3-4A; -15V@0-1A	87.5W	80	1	0.5	UL/CUL/TUV/CE/CB	61.89	56.99	53.99
323678CM	Mean Well	RT-85D	+5V@2-10A; +12V@0.1-1A; +24V@0.3-2.5A	90.0W	80	1	0.5	UL/CUL/TUV/CE/CB	66.55	57.05	54.25
323686CM	Mean Well	RQ-85B	+5V@2-10A; +12V@0.3-4A; -5V@0-1A; -12V@0-1A	80.7W	80	1	0.5	UL/CUL/TUV/CE/CB	59.99	56.99	54.15
323694CM	Mean Well	RQ-85D	+5V@2-10A; +12V@0.3-4A; +24V@0.1-1.5A; -12V@0-1A	84.0W	80	1	0.5	UL/CUL/TUV/CE/CB	59.99	56.99	54.15
323707CM	Mean Well	RS-100-5	+5V@0-16A	80.0W	80	1	0.5	UL/CUL/TUV/CE/CB	53.95	51.25	48.69
323715CM	Mean Well	RS-100-12	+12V@0-8.5A	102.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323723CM	Mean Well	RS-100-15	+15V@0-7A	105.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
323731CM	Mean Well	RS-100-24	+24V@0-4.5A	108.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	57.95	49.45	46.99
201961CM	Mean Well	S-100F-5	+5V@0-20A	100.0W	100	1	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
374918CM	Mean Well	S-100F-7.5	+7.5V@0-13.5A	101.0W	125	0.5	0.5	UL/CUL/TUV/CE/CB	66.95	49.90	44.90
123385CM	Mean Well	S-100F-12	+12V@0-8.5A	102.0W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
212450CM	Mean Well	S-100F-15	+15V@0-6.7A	100.5W	125	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
201970CM	Mean Well	S-100F-24	+24V@0-4.5A	108.0W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	44.90
216792CM	Mean Well	S-100F-48	+48V@0-2.2A	105.6W	150	0.5	0.5	UL/TUV/CE/CB	66.95	49.90	37.43
194790CM	Mean Well	SP-100-5	+5V@0-20A	100.0W	100	1	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
194802CM	Mean Well	SP-100-12	+12V@0-8.5A	102.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
212433CM	Mean Well	SP-100-15	+15V@0-6.7A	100.5W	100	0.5	0.5	UL/CUL/TUV/CE/CB	47.89	43.54	39.58
194811CM	Mean Well	SP-100-24	+24V@0-4.2A	100.8W	150	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	76.46	67.70
394169CM	Mean Well	SP-100-27	+27V@0-3.8A	102.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	84.95	79.70	75.69
213778CM	Mean Well	TP-100C	+5V@3-10A; +15V@0.4-3A; -15V@0-0.6A	104.0W	100	3	1	UL/CUL/TUV/CE/CB	118.95	106.95	96.35

\* Primary Output Blue Part No. = Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



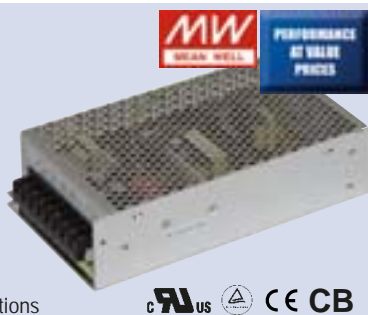
# 110 to 150-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend  
New Sale Lower\$ QtySave

## 120-Watt Enclosed

**D-120, T-120 & Q-120 Series:**  
**Dual, Triple & Quad Outputs**

- 100% full-load burn-in
- Mating connector:  
P/N 103587CM, pg 160
- -10°C to +60°C working temperature
- Mounting hardware:  
use P/Ns 222130CM,  
222156CM and 222172CM
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications

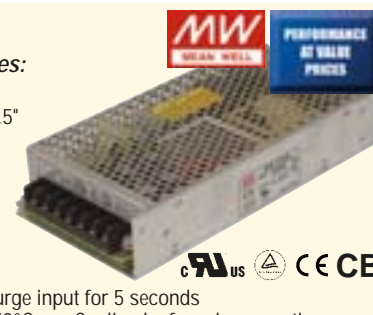


**MW** MEAN WELL  
PERFORMANCE AT VALUE PRICES  
UL US CE CB

## 125-Watt Enclosed

**RD-125, RT-125 & RQ-125 Series:**  
**Dual, Triple & Quad Output**

- New smaller design: 7.8" x 3.9" x 1.5"
- 2.7 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- 105°C output capacitors
- Universal AC input:  
88-264VAC @ 47-63Hz
- Short circuit/overload/  
over-voltage protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Cooling by free air convection
- Mating connector: 103587CM, pg 160
- Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



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## 150-Watt Enclosed

**RS-150 Series: Single Output**

- New smaller design: 7.8" x 3.9" x 1.5"
- 3.3 watts/in<sup>3</sup> power density
- 100% full-load burn-in
- 105°C output capacitor
- Cooling by free air convection
- High operating  
temperature up to 70°C
- Universal AC input:  
88-264VAC @ 47-63Hz
- Short circuit/overload/over-voltage protection
- Withstanding voltage of 300VAC  
surge input for 5 seconds
- Mating connector: 103587CM, pg 160
- Three-year warranty



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## 150-Watt Enclosed

**S-150 Series: Single Output**

- 100% full-load burn-in
- No minimum load required
- Voltage adj.: 10%
- Mating connector:  
P/N 103587CM, pg 160
- Input: 88-132/176-264 @ 47-63Hz
- -10° to +60°C working temperature
- Mounting hardware: use P/Ns 222130CM,  
222156CM & 222172CM
- Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



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Open-Frame Power Supplies  
on pages 215-220.

For PC Power Supplies, see page 267.

Quantity SAVE

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
132409CM	Mean Well	D-120A	+5V@2-12A; +12V@0.5-5A	120.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	\$69.95	\$59.46	\$44.59
132396CM	Mean Well	D-120B	+5V@2-6A; +24V@0.4-4A	126.0W	60	0.5	0.5	UL/CUL/TUV/CE/CB	69.95	59.46	44.59
301508CM	Mean Well	T-120B	+5V@2-12A; +12V@0.5-5A; -12V@0.2-1A	121.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	53.89
301516CM	Mean Well	T-120C	+5V@2-12A; +15V@0.5-5A; -15V@0.2-1A	117.5W	80	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	61.04	53.89
132388CM	Mean Well	Q-120B	+5V@2-11A; -5V@0.2-1A; +12V@0.5-4A; -12V@0.2-1A	120.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	63.79	56.09
132370CM	Mean Well	Q-120D	+5V@2-8A; +24V@0.2-2A; +12V@0.2-2A; -12V@0.2-1A	124.0W	80	0.5	0.5	UL/CUL/TUV/CE/CB	79.95	63.79	56.09
323740CM	Mean Well	RD-125A	+5V@2-15A; +12V@0.5-10A	130.9W	80	3	1	UL/CUL/TUV/CE/CB	59.99	56.99	54.15
323758CM	Mean Well	RD-125B	+5V@2-10A; +24V@0.4-5A	133.4W	80	3	1	UL/CUL/TUV/CE/CB	64.65	55.15	52.39
323766CM	Mean Well	RT-125A	+5V@2-15A; +12V@0.5-6A; -5V@0.1-1A	131.0W	80	1	0.5	UL/CUL/TUV/CE/CB	64.95	54.79	52.09
323774CM	Mean Well	RT-125B	+5V@2-15A; +12V@0.5-6A; -12V@0.1-1A	132.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323782CM	Mean Well	RT-125C	+5V@2-15A; +15V@0.5-6A; -15V@0.1-1A	132.5W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323791CM	Mean Well	RT-125D	+5V@2-15A; +12V@0.1-2A; +24V@0.4-4A	136.0W	80	1	0.5	UL/CUL/TUV/CE/CB	70.35	60.85	57.85
323803CM	Mean Well	RQ-125B	+5V@2-12A; +12V@0.5-4.5A; -5V@0.1-1A; -12V@0.1-1A	120.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
323811CM	Mean Well	RQ-125D	+5V@2-12A; +12V@0.5-4A; +24V@0.1-2.5A; -12V@0-1A	124.0W	80	1	0.5	UL/CUL/TUV/CE/CB	72.25	62.75	59.65
323820CM	Mean Well	RS-150-5	+5V@0-26A	130.0W	80	1	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323838CM	Mean Well	RS-150-12	+12V@0-12.5A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323846CM	Mean Well	RS-150-15	+15V@0-10A	150.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323854CM	Mean Well	RS-150-24	+24V@0-6.5A	156.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
323862CM	Mean Well	RS-150-48	+48V@0-3.3A	158.4W	200	0.5	0.5	UL/CUL/TUV/CE/CB	61.75	53.25	50.59
123393CM	Mean Well	S-150-5	+5V@0-30A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123414CM	Mean Well	S-150-7.5	+7.5V@0-20A	150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123422CM	Mean Well	S-150-12	+12V@0-12.5A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
202024CM	Mean Well	S-150-13.5	+13.5V@0-11.2A	151.2W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123431CM	Mean Well	S-150-15	+15V@0-10A	150.0W	180	0.3	0.3	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
123449CM	Mean Well	S-150-24	+24V@0-6.5A	156.0W	240	0.2	0.2	UL/CUL/TUV/CE/CB	69.95	58.30	52.50
202032CM	Mean Well	S-150-27	+27V@0-5.6A	151.2W	240	0.2	0.2	UL/CUL/TUV/CE/CB	64.79	58.30	52.50
167345CM	Mean Well	S-150-48	+48V@0-3.2A	153.6W	240	0.2	0.2	UL/CUL/TUV/CE/CB	64.79	58.30	52.50

\* Primary Output

Blue Part No. = Limited Quantity Available

Call for special  
versions and large  
quantities

## Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
323871CM	Volgen	SP100U-24S	+24V@4.4A	105.6W	150	0.4	0.2	—	\$49.95	\$44.95	\$38.45

\* Primary Output

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## 150-Watt Enclosed with Power Factor Correction

**SP-150, TP-150 & QP-150 Series:  
Single, Triple & Quad Outputs**

- 100% full-load burn-in
  - Input: 85-264VAC, 120-370VDC
  - Mating connector:  
P/N 103587CM, pg 160
  - -10°C to +60°C working temperature
  - Mounting hardware:  
use P/Ns 222130CM, 222156CM,  
222164CM, 222181CM & 222172CM
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- 
- 



## 200-Watt Enclosed with Power Factor Correction

### SP-200 Series: Single Output

- 100% full-load burn-in
  - Universal AC input
  - No minimum load required
  - 3.3 watts/in<sup>2</sup> maximum
  - Built-in fan cooling
  - Input: 85-264VAC @ 47-63Hz, 120-370VDC
  - Voltage adjustment: 10%
  - Mating connector: P/N 103587CM, pg 160
  - -10° to +60°C working temperature
  - Mounting hardware use P/Ns 222130CM, 222156CM, 222164CM, 222181CM & 222172CM
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- 
- 



## 200-Watt Enclosed with Power Factor Correction

**QP-200 Series: Quad Output**

- 100% full-load burn-in
  - Input: 85-264VAC, 120-370VDC
  - Remote sense
  - 2.6 watts/in<sup>2</sup> maximum
  - Built-in fan cooling
  - Mating connector:  
P/N 103587CM, pg 160
  - -10° to +60°C working temperature
  - Mounting hardware use P/Ns 222156CM, 222181CM & 222172CM
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- 



## 240-Watt Enclosed


### S-240 Series: Single Output

- 100% full-load burn-in
  - Auto-switch AC input
  - No minimum load required
  - 3.4 watts/in<sup>2</sup> maximum
  - Auto cooling fan
  - Voltage adjustment: 10%
  - Mating connector:  
P/N 103587CM, pg 160
  - Input: 88-132/176-264VAC @ 47-63Hz
  - -10°C to +60°C working temperature
  - Mounting hardware use P/Ns 222156CM & 222172CM
  - Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- 



**Open-Frame Power Supplies**  
on pages 215-220.

*For PC Power Supplies, see page 267.*

on pages 215-220.												
Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing			
			Voltage@Current (min-max)	Power					1	10	25	
201902CM	Mean Well ☺	SP-150-3.3	+3.3V@0-30A		99.0W	100	1	0.5	UL/CUL/TUV/CE/CB	\$82.75	\$70.34	\$52.75
201911CM	Mean Well ☺	SP-150-5	+5V@0-30A		150.0W	100	1	0.5	UL/CUL/TUV/CE/CB	74.95	63.71	54.03
173420CM	Mean Well ☺	SP-150-12	+12V@0-12.5A		150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
394193CM	Mean Well ☺	SP-150-13.5	+13.5V@0-11.2A		151.2W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
173411CM	Mean Well ☺	SP-150-15	+15V@0-10A		150.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	91.21	85.70
173403CM	Mean Well ☺	SP-150-24	+24V@0-6.3A		150.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	90.21	85.70
201929CM	Mean Well ☺	SP-150-48 ☹	+48V@0-3.2A		153.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	74.95	63.71	47.78
213831CM	Mean Well ☺	TP-150C	+5V@2-15A; +15V@0.4-4.5A; -15V@0-0.6A	151.5W	100	3	1	UL/CUL/TUV/CE/CB	93.25	83.89	75.50	
213647CM	Mean Well ☺	QP-150F	+5V@3-10A; +15V@0-3A; +24V@0.4-2A; -15V@0-0.6A	152.0W	120	2	1	UL/CUL/TUV/CE/CB	145.95	124.06	93.04	
202041CM	Mean Well ☺	SP-200-5	+5V@0-40A	200.0W	100	1	0.5	UL/CUL/TUV/CE/CB	102.95	85.79	74.79	
194773CM	Mean Well ☺	SP-200-12	+12V@0-16.7A	200.4W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39	
212409CM	Mean Well ☺	SP-200-13.5	+13.5V@0-14.9A	201.1W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39	
202059CM	Mean Well ☺	SP-200-15	+15V@0-13.4A	201.0W	100	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39	
194781CM	Mean Well ☺	SP-200-24	+24V@0-8.4A	201.6W	150	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39	
202067CM	Mean Well ☺	SP-200-48	+48V@0-4.2A	201.6W	250	0.5	0.5	UL/CUL/TUV/CE/CB	102.95	92.66	83.39	
213751CM	Mean Well ☺	QP-200D	+5V@3-15A; +12V@0-4A; +24V@0.4-3A; -12V@0-0.7A	204.9W	100	2	1	UL/CUL/TUV/CE/CB	156.95	127.99	112.99	
137648CM	Mean Well ☺	S-240-12	+12V@0-18A	216.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09	
202075CM	Mean Well ☺	S-240-15	+15V@0-15A	225.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	94.95	85.46	76.91	
137656CM	Mean Well ☺	S-240-24 ☹	+24V@0-10A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	109.95	98.95	89.09	
392833CM	Mean Well ☺	S-240-30 ☹	+30V@0-8A	240.0W	180	0.5	0.5	UL/CUL/TUV/CE/CB	99.95	93.95	89.25	
167337CM	Mean Well ☺	S-240-48 ☹	+48V@0-5A	240.0W	240	1	1	UL/CUL/TUV/CE/CB	109.95	98.95	89.09	

\* Primary Output

★ Blue Part No. = Limited Quantity Available

**Other Manufacturers – Special Offers at Great Savings – 90-Day Warranty**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)	Load Reg. (±%)	Line Reg. (±%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
199515CM	Globtek	RT-3S150-24	24V@6.5A	156.0W	100	5	5	UL/CE	\$64.15	\$57.75	\$43.15
371012CM	Potrans	GL150W-24-NC	24V@6.5A	156.0W	150	—	—	UL/CUL/TUV/CE	<del>\$58.95</del> 49.95	39.95	29.95

 RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

*Details on page 1*

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242

225

# 300 to 480-Watt Enclosed Switching AC-to-DC Power Supplies

Color Code Legend			
New	Sale	Lower\$	QtySave

## 300-Watt Enclosed with Power Factor Correction

### PSP-300 Series: Single Output

- 100% full-load burn-in
  - Input: 88-264VAC, 120-370VDC
  - Forced air cooling by built-in DC fan
  - Built-in active PFC function
  - Built-in cooling fan ON-OFF
  - Built-in remote ON-OFF control
  - Built-in remote sense function
  - With power good & fail signal output
  - Short circuit/overload/over-voltage/over-temperature protection
  - Mating connector: P/N 103587CM or 302877CM, pg 159
  - Input: 88-264VAC@47-63Hz/124-370VDC
  - Working temperature: -10°C to +50°C
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 300 & 320-Watt Enclosed with Power Factor Correction

- 100% full-load burn-in
- Universal AC input
- No minimum load required
- Auto cooling fan
- Voltage adj.: 10%
- Mating connector: P/N 103587CM, pg 160
- Mounting hardware: use P/Ns 222156CM, 222130CM, 222181CM & 222172CM
- Three-year warranty

### SP-300 & SP-320 Series: Single Output

- Input: 88-264VAC @ 47-63Hz, 120-370VDC
- Working temperature: SP-300: -10° to +60°C; SP-320: -20° to 65°

### QP-320 Series: Quad Output

- Input: 90-264VAC @ 47-63Hz
- Working temperature: -10° to +70°C



## 320-Watt Enclosed

### S-320 Series: Single Output

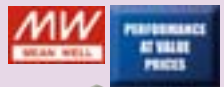
- 100% full-load burn-in
  - Auto cooling fan
  - No minimum load required
  - 4.1 watts/in<sup>3</sup> maximum
  - Voltage adjustment: 10%
  - Input: 88-132/176-264VAC @ 47-63Hz
  - Mating connector: P/N 103587CM, pg 160
  - -10° to +60°C working temperature
  - Mounting hardware: use P/Ns 222156CM, 222181CM & 222172CM
  - Two-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 480-Watt Enclosed with Power Factor Correction

### SP-480 Series: Single Output

- Input: 85-264VAC, 120-370VDC
  - -20°C to +60°C working temperature
  - Short circuit/overload/over-voltage/over-temperature protection
  - Built-in remote ON-OFF control
  - Built-in remote sense function
  - High power density: 5.18 watts/in<sup>3</sup> maximum
  - Active AC surge current limiting
  - Inrush current: 25A@115VAC
  - Leakage current: <2mA @ 240VAC
  - Size: 10.9"L x 5.0"W x 1.7"H
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



Open-Frame Power Supplies on pages 215-220.

For PC Power Supplies, see page 267.

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
374168CM	Mean Well	PSP-300-12	+12V@0-25A	300.0W	200	0.5	0.3	UL/CUL/TUV/CE/CB	\$178.65	\$169.10	\$160.65
374176CM	Mean Well	PSP-300-13.5	+13.5V@0-22A	297.0W	200	0.5	0.3	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374184CM	Mean Well	PSP-300-24	+24V@0-12.5A	300.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374192CM	Mean Well	PSP-300-27	+27V@0-11A	297.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
374205CM	Mean Well	PSP-300-48	+48V@0-6.5A	312.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	178.65	169.10	160.65
202091CM	Mean Well	SP-300-5	+5V@0-50A at 230VAC; 0-40A at 115VAC	250.0W	150	1	0.5	UL/CUL/TUV/CE/CB	169.95	144.46	108.34
137390CM	Mean Well	SP-300-12	+12V@0-24A at 230VAC; 0-19.2A at 115VAC	288.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
212396CM	Mean Well	SP-300-13.5	+13.5V@0-21A at 230VAC; 0-16.8A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
202104CM	Mean Well	SP-300-15	+15V@0-19A at 230VAC; 0-15.2A at 115VAC	285.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
137402CM	Mean Well	SP-300-24	+24V@0-12.5A at 230VAC; 0-10A at 115VAC	300.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	159.70	143.80
161980CM	Mean Well	SP-300-48	+48V@0-6.25A at 230VAC; 0-5A at 115VAC	300.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	181.95	154.66	115.99
244734CM	Mean Well	SP-320-5	+5V@0-55A at 230VAC; 0-44A at 115VAC	275.0W	150	1	0.5	UL/CUL/TUV/CE/CB	94.75	86.15	78.29
394214CM	Mean Well	SP-320-7.5	+7.5V@0-40A	300.0W	150	1	0.5	UL/CUL/TUV/CE/CB	146.95	126.95	118.99
244742CM	Mean Well	SP-320-12	+12V@0-25A at 230VAC; 0-20A at 115VAC	300.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
244751CM	Mean Well	SP-320-24	+24V@0-13A at 230VAC; 0-10.4A at 115VAC	312.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
244769CM	Mean Well	SP-320-48	+48V@0-6.7A at 230VAC; 0-5.4A at 115VAC	321.6W	240	0.5	0.2	UL/CUL/TUV/CE/CB	146.95	126.95	118.95
216776CM	Mean Well	S-320-5	+5V@0-50A	250.0W	150	1	0.5	UL/CUL	124.95	112.80	101.50
207212CM	Mean Well	S-320-7.5	+7.5V@0-36A	270.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207204CM	Mean Well	S-320-12	+12V@0-25A	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
374993CM	Mean Well	S-320-15	+15V@0-20A	300.0W	150	0.5	0.5	UL/CUL	146.95	126.95	118.99
196656CM	Mean Well	S-320-24	+24V@0-12.5A	300.0W	150	0.5	0.5	UL/CUL	124.95	112.80	101.50
207191CM	Mean Well	S-320-48	+48V@0-6.5A	312.0W	240	0.5	0.5	UL/CUL	124.95	112.80	101.50
301372CM	Mean Well	SP-480-12	+12V@0-40A at 230VAC; 0-36A at 115VAC	480.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301321CM	Mean Well	SP-480-24	+24V@0-20A at 230VAC; 0-18A at 115VAC	480.0W	150	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
301401CM	Mean Well	SP-480-48	+48V@0-10A at 230VAC; 0-9A at 115VAC	480.0W	240	0.5	0.2	UL/CUL/TUV/CE/CB	293.95	253.68	228.33
668764CM	Mean Well	QP-320D	+5V@2.5-20A; +12V@0-10A; +24V@0.2-5A; -12V@0.2-2A	316.0W	100	2.0	1.0	UL/CUL/TUV/CE/CB	164.85	155.15	146.55
668772CM	Mean Well	QP-320F	+5V@2.5-20A; +15V@0-10A; +24V@0.2-5A; -15V@0.2-1.6A	316.0W	100	2.0	1.0	UL/CUL/TUV/CE/CB	164.85	155.15	146.55

\* Primary Output

Blue Part No. = Limited Quantity Available

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## 500-Watt Enclosed with Power Factor Correction

### SP-500 Series: Single Output

- 100% full-load burn-in
- Input: 88-264VAC, 120-370VDC
- 3.6 watts/in<sup>2</sup> maximum • Remote control
- Auto cooling fan • Voltage adjustment: 10%
- No minimum load required
- Input: 100-240VAC @ 50-60Hz
- Mating connector: P/N 103587CM pg 160
- Mounting hardware: use P/Ns 222199CM, 222156CM & 222172CM
- -10° to +60°C working temperature
- Three-year warranty • See [www.Jameco.com](http://www.Jameco.com) for specifications



## 600-Watt Enclosed with Current Sharing

### SCN-600 Series: Single Output

- 100% full-load burn-in
  - Auto cooling fan
  - No minimum load required
  - Voltage adjustment: 5%
  - 3.7 watts/in<sup>2</sup> maximum
  - Universal AC input:  
90-130/180-260VAC @ 47-63Hz
  - Parallel operation (current sharing)
  - Remote sense and control
  - Mating connector: P/N 103587CM, pg 160
  - -10° to +65° C working temperature;  
(+50° to -65° C @ 50% load)
  - Mounting hardware: use P/Ns 222156CM & 222172CM
  - Two-year warranty
  - See [www.Jameco.com](http://www.Jameco.com) for specifications
- 



## 600-Watt Enclosed



### SE-600 Series: Single Output

- AC input range switch selectable
- AC input active surge current limiting
- Inrush current: 30A @ 115VAC
- Leakage current: <2mA @ 240VAC
- Short circuit/overload/over-voltage/over-temperature protection
- -20° to +60°C working temperature
- Size: 9.7"L x 5.0"W x 2.5"H
- Two-year warranty
- See [www.jameco.com](http://www.jameco.com) for specifications



## 600-Watt Enclosed with Power Factor Correction

### SCP-600 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC
  - PFC: >0.98 @ 230VAC
  - Short circuit/overload/over-voltage/  
over-temperature protection
  - Built-in remote sense function,  
and remote ON-OFF function
  - Power good signal
  - With parallel function (N + 1)
  - Adjustable from 20% to 100%  
output voltage by external  
control 1V to 5V
  - Forced air cooling by built-in DC fan
  - Mating connector: P/N 103587CM or 302877CM, pg 159
  - Working temperature: -20°C to +65°C
  - Three-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications
- 
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**Open-Frame Power Supplies**  
on pages 215-220.

*For PC Power Supplies, see page 267.*

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (±%)*	Line Reg. (±%)*	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190692CM	Mean Well ☺	SP-500-12☹	+12V@0-40A at 230VAC; 0-34A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	\$249.95	\$216.10	\$194.50
212388CM	Mean Well ☺	SP-500-13.5	+13.5V@0-36A at 230VAC; 0-30.6A at 115VAC	486.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
213604CM	Mean Well ☺	SP-500-15	+15V@0-32A at 230VAC; 0-27.2A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	239.95	215.95	194.35
147053CM	Mean Well ☺	SP-500-24	+24V@0-20A at 230VAC; 0-17A at 115VAC	480.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
190705CM	Mean Well ☺	SP-500-27	+27V@0-18A at 230VAC; 0-15.3A at 115VAC	486.0W	200	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
161795CM	Mean Well ☺	SP-500-48	+48V@0-10A at 230VAC; 0-8.5A at 115VAC	480.0W	300	0.5	0.5	UL/CUL/TUV/CE/CB	249.95	216.10	194.50
374002CM	Mean Well ☺	SE-600-05	+5V@0-100A	500.0W	150	2	0.5	UL/CUL	173.95	156.59	140.89
374011CM	Mean Well ☺	SE-600-12☹	+12V@0-50A	600.0W	150	0.5	0.5	UL/CUL	173.95	156.59	140.89
291522CM	Mean Well ☺	SE-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295902CM	Mean Well ☺	SE-600-24	+24V@0-25A	600.0W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295911CM	Mean Well ☺	SE-600-27	+27V@0-22.2A	599.4W	150	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
295929CM	Mean Well ☺	SE-600-48☹	+48V@0-12.5A	600.0W	200	0.5	0.5	UL/CUL/CB	173.95	156.59	140.89
220249CM	Mean Well ☺	SCN-600-05	+5V@0-100A	500.0W	100	2	0.5	UL/CUL/CB	273.95	213.99	197.99
220257CM	Mean Well ☺	SCN-600-12	+12V@0-50A	600.0W	120	1	0.5	UL/CUL/CB	273.95	213.99	197.99
374045CM	Mean Well ☺	SCN-600-15	+15V@0-40A	600.0W	150	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
220265CM	Mean Well ☺	SCN-600-24	+24V@0-25A	600.0W	240	1	0.5	UL/CUL/CB	273.95	213.99	197.99
374061CM	Mean Well ☺	SCN-600-48	+48V@0-12A	600.0W	480	0.5	0.5	UL/CUL/CB	273.95	213.99	197.99
388631CM	Mean Well ☺	SCP-600-12	+12V@0-50A	600.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
388640CM	Mean Well ☺	SCP-600-15	+15V@0-40A	600.0W	140	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
374264CM	Mean Well ☺	SCP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31
374301CM	Mean Well ☺	SCP-600-48	+48V@0-12A	576.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	356.25	308.75	293.31

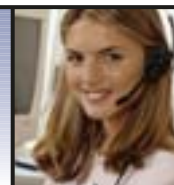
\* Primary Output

★ Blue Part No. = Limited Quantity Available

Order Anytime,  
Day or Night!

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.

1-800-831-4242



 RoHS compliant product

⊕ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

*Details on page 1*

Color Code Legend			
New	Sale	Lower\$	QtySave

Order 24/7 Toll Free 1-800-831-4242



## 500, 1000 & 1500-Watt Enclosed with Power Factor Correction & Current Sharing

### PSP-500, PSP-1000 & PSP-1500 Series: Single Output

- 100% full-load burn-in • Voltage adj.: 10%
- No minimum load required • 3.6 watts/in<sup>3</sup> maximum
- Auto cooling fan • Remote sense and control
- Mating connector: P/N 103587CM, pg 160
- -10° to +60°C working temperature
- Mounting hardware: use P/Ns 222156CM & 222172CM
- Three-year warranty

• See [www.Jameco.com](http://www.Jameco.com) for specifications

### PSP-500 and PSP-1000:

- Parallel operation (current sharing)
- Universal AC input: 90-264VAC @ 47-63Hz, 127-370VDC

PSP-1500: • Universal AC input: 176-264VAC @ 47-63Hz, 248-370VDC



PSP-500  
UL US CE CB

## 600-Watt Enclosed with Power Factor Correction

### PSP-600 Series: Single Output

- Input: 88-264VAC, 124-370VDC
- Parallel function
- Built-in active PFC function
- Forced air cooling by built-in DC fan
- Built-in remote ON-OFF control, and remote sense function
- Current sharing up to 2400W (3 + 1)
- Short circuit/overload/over-voltage/over-temperature protection
- Input: 88-264VAC @ 47-64Hz/124-370VDC
- Mating connector: P/N 103587CM or 302877CM, pg 159
- Working temperature: -20°C to +50°C
- Three-year warranty • See [www.Jameco.com](http://www.Jameco.com) for specifications



PSP-600  
UL US CE CB

## 750-Watt Enclosed with Power Factor Correction

### SP-750 Series: Single Output

- 100% full-load burn-in
- Universal AC input: 88-264VAC @ 47-63Hz, 127-370VDC
- Short circuit/overload/over-volt protection
- Withstanding voltage of 300VAC surge input for 5 seconds
- High operating temperature up to 70°C
- Cooling by built-in fan
- Built-in active PFC function, PF>0.95
- Built-in constant current limiting circuit
- Built-in remote ON-OFF control
- Built-in remote sense function

- Mating connector: 103587CM, pg 160
- High power density: 5.48W/in<sup>3</sup>
- Power-good and fail-signal outputs
- Three-year warranty



SP-750  
UL US CE CB

## 800-Watt Enclosed with Power Factor Correction

### SCP-800 Series: Single Output

- Input: 180-260VAC @ 47-63Hz/260-370VDC • PFC: >0.98 @ 230VAC
- Short circuit/overload/over-voltage/over-temperature protection
- Forced air cooling by built-in DC fan
- Built-in remote sense function, and remote ON-OFF function
- Power good signal • With parallel function (N + 1)
- Adjustable from 20% to 100% output voltage by external control 1V to 5V
- Mating connector: P/N 103587CM or 302877CM, pg 159
- Working temperature: -20°C to +65°C
- Three-year warranty • See [www.Jameco.com](http://www.Jameco.com) for specifications



SCP-800  
UL US CE CB

Open-Frame Power Supplies on pages 215-220.

For PC Power Supplies, see page 267.

**SALE**

Jameco Part No.	Manufacturer	Product No.	Output		Ripple & Noise (mV p-p)*	Load Reg. (%)	Line Reg. (%)	Certification	Pricing		
			Voltage@Current (min-max)	Power					1	10	25
190713CM	Mean Well	PSP-500-12	+12V@0-41.5A at 230VAC; 0-33.2A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$269.95	\$232.09	\$216.69
202121CM	Mean Well	PSP-500-15	+15V@0-33A at 230VAC; 0-26.4A at 115VAC	498.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$138.35	\$125.75	\$114.32
190721CM	Mean Well	PSP-500-24	+24V@0-20.8A at 230VAC; 0-16.6A at 115VAC	499.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	242.96	218.66
190730CM	Mean Well	PSP-500-27	+27V@0-18.5A at 230VAC; 0-14.8A at 115VAC	499.5W	150	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	229.46	172.09
190748CM	Mean Well	PSP-500-48	+48V@0-10.5A at 230VAC; 0-8.4A at 115VAC	504.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	269.95	232.95	216.95
374213CM	Mean Well	PSP-600-12	+12V@0-50A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374221CM	Mean Well	PSP-600-15	+15V@0-40A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374230CM	Mean Well	PSP-600-24	+24V@0-25A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374256CM	Mean Well	PSP-600-27	+27V@0-22.2A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374248CM	Mean Well	PSP-600-48	+48V@0-12.5A	600.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	199.99	191.19	181.65
374029CM	Mean Well	SP-750-15	+15V@0-50A	750.0W	120	0.5	0.3	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
320047CM	Mean Well	SP-750-24	+24V@0-31.3A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
374037CM	Mean Well	SP-750-27	+27V@0-27.8A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
320055CM	Mean Well	SP-750-48	+48V@0-15.7A	750.0W	120	0.5	0.2	UL/CUL/TUV/CE/CB	399.95	359.95	323.95
388615CM	Mean Well	SCP-800-12	+12V@0-66A	792.0W	120	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
388623CM	Mean Well	SCP-800-15	+15V@0-53A	795.0W	150	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
374310CM	Mean Well	SCP-800-24	+24V@0-33A	792.0W	240	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
374336CM	Mean Well	SCP-800-48	+48V@0-16A	768.0W	480	0.5	0.5	UL/CUL/TUV/CE/CB	441.75	403.75	383.56
217373CM	Mean Well	PSP-1000-5	+5V@0-145A at 230VAC; 0-123.3A at 115VAC	725.0W	100	2	0.5	UL/CUL/TUV/CE/CB	\$499.95	\$315.45	\$286.75
217365CM	Mean Well	PSP-1000-12	+12V@0-75A at 230VAC; 0-63.8A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$499.95	\$318.29	\$289.35
231642CM	Mean Well	PSP-1000-13.5	+13.5V@0-67A at 230VAC; 0-57.8A at 115VAC	1000.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$499.95	\$336.75	\$306.10
231634CM	Mean Well	PSP-1000-15	+15V@0-60A at 230VAC; 0-51A at 115VAC	900.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$499.95	\$336.75	\$306.15
217357CM	Mean Well	PSP-1000-24	+24V@0-37.6A at 230VAC; 0-32A at 115VAC	902.4W	150	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	442.19	402.59
231651CM	Mean Well	PSP-1000-27	+27V@0-33.6A at 230VAC; 0-28.6A at 115VAC	907.2W	150	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	445.36	334.02
217349CM	Mean Well	PSP-1000-48	+48V@0-19A at 230VAC; 0-16.2A at 115VAC	912.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	523.95	442.19	402.59
231669CM	Mean Well	PSP-1500-5	+5V@0-217.5A	1087.5W	100	2	0.5	UL/CUL/TUV/CE/CB	\$699.95	\$533.89	\$485.35
373261CM	Mean Well	PSP-1500-12	+12V@0-112.5A	1350.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	747.65	663.25	619.25
231685CM	Mean Well	PSP-1500-13.5	+13.5V@0-100.5A	1356.7W	150	0.5	0.3	UL/CUL/TUV/CE/CB	479.99	436.42	396.74
231693CM	Mean Well	PSP-1500-15	+15V@0-90.0A	1350.0W	150	0.5	0.3	UL/CUL/TUV/CE/CB	\$446.58	\$399.89	\$363.55
373923CM	Mean Well	PSP-1500-24	+24V@0-56.4A	1353.6W	150	0.5	0.2	UL/CUL/TUV/CE/CB	747.65	663.25	619.25
231714CM	Mean Well	PSP-1500-27	+27V@0-50.4A	1360.8W	150	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	663.25	619.25
231722CM	Mean Well	PSP-1500-48	+48V@0-28.5A	1368.0W	200	0.5	0.2	UL/CUL/TUV/CE/CB	786.95	663.25	619.25

\* Primary Output

Blue Part No. = Limited Quantity Available

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

## DIN-Rail Switching Power Supplies



373181CM (Fig. 1)



192698CM (Fig. 2)



212290CM  
(Fig. 3)



212273CM  
(Fig. 4)



221891CM  
(Fig. 5)



252662CM (Fig. 6)

- Low cost, high reliability
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Short-circuit, overload, over-voltage protected
- 100% full-load burn-in test
- For DIN-Rail terminal blocks see page 157

248735CM  
DIN Mounting  
Rail



Part No.	Product No.	Fig.	Power (W)	Output Volts@Curr.	Input Voltage (VAC @ Hz/VDC)	Input Current @ Maximum Load	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
373173CM	DR-30-5	1	15	5VDC @ 3A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	\$39.99	\$35.99	\$32.39
373181CM	DR-30-12	1	24	12VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373190CM	DR-30-15	1	30	15VDC @ 2A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
373202CM	DR-30-24	1	36	24VDC @ 1.5A	85-264 @ 47-63/120-370	1.1A(115V)/600mA(230V)	3.1 x 3.7 x 2.2	0.6	39.99	35.99	32.39
212302CM	DR-4505	2	25	5VDC @ 5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192698CM	DR-4512	2	42	12VDC @ 3.5A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
212874CM	DR-4515	2	42	15VDC @ 2.8A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.9	45.95	35.19	32.99
192680CM	DR-4524	2	48	24VDC @ 2A	85-264 @ 47-63/120-370	1.5A(115V)/750mA(230V)	3.0 x 2.6 x 3.6	0.7	45.95	35.19	32.99
373211CM	DR-60-5	1	32.5	5VDC @ 6.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373229CM	DR-60-12	1	54	12VDC @ 4.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373237CM	DR-60-15	1	60	15VDC @ 4A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
373245CM	DR-60-24	1	60	24VDC @ 2.5A	85-264 @ 47-63/124-370	1.8A(115V)/1.0A(230V)	3.1 x 3.7 x 2.2	0.7	50.89	45.80	41.22
212290CM	DR-7512	3	75	12VDC @ 6.3A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212281CM	DR-7524	3	75	24VDC @ 3.2A	85-264 @ 47-63/120-370	2.0A(115V)/1.2A(230V)	3.9 x 2.1 x 4.9	1.2	73.95	56.09	51.69
212273CM	DR-12012	4	120	12VDC @ 10A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
212265CM	DR-12024	4	120	24VDC @ 5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	85.95	64.89	60.49
221903CM	DR-12048	4	120	48VDC @ 2.5A	88-132/176-264* @ 47-63	2.8A(115V)/1.7A(230V)	2.6 x 3.9 x 4.9	1.4	76.95	69.26	62.33
221891CM	DRP-24024	5	240	24VDC @ 10A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
221882CM	DRP-24048	5	240	48VDC @ 5.0A	85-264 @ 47-63/120-370	3.5A(115V)/1.8A(230V)	3.9 x 4.9 x 4.9	2.4	156.95	141.26	127.13
373122CM	DRT-240-24	5	240	24VDC @ 10A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	172.35	155.12	139.60
373114CM	DRT-240-48	5	240	48VDC @ 5A	3-phase 340-550 @ 47-63/480-780	0.95A(400V)/0.75A(500V)	3.9 x 4.9 x 4.9	2.9	172.35	155.12	139.60
252662CM	DRP-48024	6	480	24VDC @ 20A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
252654CM	DRP-48048	6	480	48VDC @ 10A	180-264 @ 47-63/25-370	4.0A(230V)	8.9 x 3.9 x 4.9	4.6	218.95	207.99	197.60
295937CM	DRP-480S-24	6	480	24VDC @ 20A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
301305CM	DRP-480S-48	6	480	48VDC @ 10A	90-132/180-264* @ 47-63/254-370	11.0A(115V)/4.0A(230V)	8.9 x 3.9 x 4.9	4.6	225.35	215.03	204.28
372576CM	DRT-480-24	6	480	24VDC @ 20A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	186.26	167.63
373106CM	DRT-480-48	6	480	48VDC @ 10A	3-phase 340-550 @ 47-63/480-750	1.7A(400V)/1.3A(500V)	8.9 x 3.9 x 4.9	5.5	206.95	186.26	167.63
Part No.	Cross Ref. No.	Description		Material	Type	Length	1	10	100		
248735CM	2094.0	Prepunched DIN mounting rail		Zinc bichromate plate steel	TS35 x 7.5	1 meter (39")	\$6.79	\$5.45	\$4.10		

\*Switch selectable † With Power Factor Correction Blue Part No. = Limited Quantity Available



## DIN-Rail Switching Power Supplies

Part No.	Product No.	Power (W)	Output Volts@Current	Input Voltage (VAC @ Hz/VDC)	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
478661CM	SDP3-15-100T	15	12-15VDC @ 4.2-3.4A	85-264 @ 43-67/90-375	2.9 x 1.7 x 3.5	0.5	\$115.15	\$112.59	\$111.39
478645CM	SCP30S5-DN	30	5VDC @ 6A	85-264 @ 50/60	4.7 x 2.5 x 1.2	1.5	124.95	120.95	117.55
478653CM	SDN2.5-24-100P	60	24-28VDC @ 2.5A	85-132/176-264 @ 47-63/90-375	4.5 x 1.9 x 4.8	1.6	137.35	131.95	126.99



478653CM  
SDN Series

## 13.8VDC Precision Regulated Power Supplies

- Heavy duty 5'8" 3-prong power cord
- Illuminated rocker switch
- Short-circuit protection
- Fuse protected
- Output mating terminals: see pg 163 for cigarette plugs & pg 291 for banana terminal plugs

135845CM  
Banana/  
Cigarette



136581CM  
Banana  
terminal



138667CM  
Banana  
terminal  
(rear)



Part No.	Model No.	Power (W)	Output Volts@Curr.	Input Voltage	Output Terminals	Size (L" x W" x H")	Wt. (lbs.)	1	10	25
135845CM	RPS1204	55.2	13.8VDC @ 4A	115VAC @ 60Hz	Banana terminals / cigarette plug	6.7 x 5.2 x 3.2	5.5	\$31.95	\$28.85	\$25.65
136581CM	RPS1207	96.6	13.8VDC @ 7A	115VAC @ 60Hz	Banana terminals	8.7 x 5.7 x 3.6	8.5	64.15	57.75	52.39
138667CM	38-381	138.0	13.8VDC @ 10A	115VAC @ 60Hz	Banana terminals (rear)	7.0 x 6.6 x 4.3	10.0	69.95	62.95	56.95
138675CM	52-192012	276.0	13.8VDC @ 20A	115VAC @ 60Hz	Banana terminals	10.0 x 7.8 x 4.4	15.9	109.95	99.95	89.95

† P/N 136581CM includes overheating protection



## 12 and 24VDC Precision Regulated Power Supplies

- Input voltage: 117VAC @ 60Hz
- Fuse and auto circuit breaker overload protection
- 3-prong heavy duty grounded AC power cord
- Universal binding posts
- Filtered output



540728CM

Part No.	Model No.	Power (W)	Output Volts @ Curr.	Size (L" x W" x H")	Wt. (lbs.)	1	5
540728CM	PSR-10	250	12VDC @ 10A	7.75 x 1.50 x 4.50	9.25	\$69.05	\$62.15

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges.  
 Sorry, we're unable to ship COD.

### Rack Mount Power Supplies

See page 336 for the latest selection.



## 5-24VDC Linear Power Supplies

### 478670CM/478688CM:

- Easy-to-install screw terminal connections
- Fast transient response; ideal for test applications
- Low noise, extremely quiet DC output for noise sensitive or analog circuitry
- Automatic resetting overload protection
- Industry standard footprint
- Short circuit protected

Part No.	Model No.	Input Voltage	Output Volts@Curr.	1	10	25
478670CM	SLS-05-030-1T▲	100-240VAC selectable	5VDC @ 3A .....	\$41.09	\$40.66	\$40.26
478688CM	SLS-24-012T▲	100-240VAC selectable	24VDC @ 1.2A .....	41.09	40.66	40.26
478637CM	83-24-225-3▲	104-127VAC, 208-254VAC	24VDC @ 2.5A ....	139.95	137.95	136.39

▲ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

### 478637CM:

- Low noise output
- Designed for both bench and rack use
- Current limiting - automatic reset
- Completely protected short circuit proof; automatic foldback
- Isolated floating output
- UL Recognized, CSA Certified
- Remote sensing



478637CM

## 108 Watt Desktop Power Supplies

- Input voltage: 88-132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Short circuit/over load/over voltage/over temperature protection
- Front panel on/off switch & 3 color LED loading indicator
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 3.3"H x 5.5"D
- Weight: 3.3 lbs
- Line regulation: ±5%

Part No.	Product No.	Description	1	10	25
673230CM	ESP-120-13.5	13.5V @ 0 - 8A .....	\$49.65	\$47.19	\$44.79
673256CM	ESP-120-27	27V @ 0 - 4A .....	69.69	66.19	62.89

NEW

### 673230CM:

- Ripple and noise max.: 120mVp-p
- Voltage adjustment range: 12VDC to 15VDC
- Efficiency (typical): 81%
- Load reg.: ±2%

673230CM



### 673256CM:

- Ripple and noise max.: 150mVp-p
- Voltage adjustment range: 24VDC to 30VDC
- Efficiency (typical): 83%
- Load reg.: ±1%

## 0.5 to 10-Watt Isolated DC-to-DC Converters

### 0.5 & 1-Watt Regulated & Unregulated Encapsulated

- 1000VDC isolation
- Protection: short-circuit
- Working temp.: -15 to +60°C
- No external components needed
- Input filter: capacitor type
- 100% burn-in test
- One-year warranty



### 3 & 5-Watt Regulated Encapsulated

- 1000VDC isolation
- 2:1 wide input range
- Shielded metal case
- Working temperature: -15 to +60°C
- No external components needed
- Protection: short-circuit & overload
- Input filter: Pi network
- 100% burn-in test
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
213225CM	SRS-0505	4.5-5.5V	+5V@100mA	0.5W	0.88x0.39x0.33	8	1.0	1.0	100	\$4.89	\$4.45	\$4.25	\$4.09
216830CM	SPR01L-12	4.5-5.5V	+12V@84mA	1W	0.77x0.28x0.4	4	1.0	1.0	100	10.95	9.95	7.88	5.91
213268CM	SCW03A-05	9-18V	+5V@600mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	15.49	13.95	12.59	11.29
155918CM	DCW03A-05	9-18V	+5V@300mA; -5V@300mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
161701CM	DCW03A-12	9-18V	+12V@125mA; -12V@125mA	3W	1.25x0.8x0.48	10	1.0	0.5	100	20.95	18.89	16.99	15.29
220388CM	SLW05L-12	4.5-9V	+12V@417mA	5W	2x1x0.44	5	0.2	0.5	100	24.95	22.49	20.25	18.25
220353CM	SLW05A-033	9-18V	+3.3V@1500mA	5W	2x1x0.44	5	0.2	0.5	100	19.95	17.95	16.16	14.54
216928CM	SLW05A-05	9-18V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216881CM	SLW05A-15	9-18V	+15V@333mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216936CM	SLW05B-05	18-36V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	24.95	22.49	20.25	18.25
216910CM	SLW05B-12	18-36V	+12V@417mA	5W	2x1x0.44	5	1.0	0.2	100	21.95	19.76	17.78	16.00
213233CM	SLW05C-05	36-72V	+5V@1000mA	5W	2x1x0.44	5	1.0	0.2	100	17.25	15.50	13.95	12.56

Blue Part No. = Limited Quantity Available

## 10-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -15 to +60°C
- Input filter: Pi-network
- Shielded metal case
- Industry standard package
- 100% burn-in test
- Protection: short-circuit & overload
- Free-air convection cooling
- One-year warranty



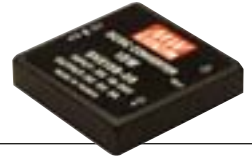
Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
216961CM	SKE10A-05	9-18V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	\$33.95	\$30.55	\$26.95	\$24.55
216979CM	SKE10A-15	9-18V	+15V@666mA	10W	2x1x0.44	5	0.3	1.0	60	33.95	30.56	24.44	18.33
220337CM	SKE10B-033	18-36V	+3.3V@2400mA	8W	2x1x0.44	5	0.3	0.5	50	29.95	26.99	21.59	16.19
216952CM	SKE10B-05	18-36V	+5V@2000mA	10W	2x1x0.44	5	0.3	0.5	50	33.95	30.55	26.95	24.55
217023CM	SKE10B-12	18-36V	+12V@840mA	10W	2x1x0.44	5	0.3	0.5	60	29.95	26.96	24.26	21.34
216944CM	SKE10C-05	36-72V	+5V@2000mA	10W	2x1x0.44	5	0.3	1.0	50	33.95	30.56	24.44	18.33
217031CM	DKE10A-05	9-18V	+5V@1000mA; -5V@1000mA	10W	2x1x0.44	5	0.3	0.5	50	34.95	31.46	25.16	18.87
217091CM	DKE10A-12	9-18V	+12V@420mA; -12V@420mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217111CM	DKE10A-15	9-18V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45
217074CM	DKE10B-15	18-36V	+15V@333mA; -15V@333mA	10W	2x1x0.44	5	0.3	0.5	60	34.95	31.45	27.95	25.45

Blue Part No. = Limited Quantity Available



## 15-Watt Encapsulated

- Isolation voltage: 1000VDC
- Free-air convection cooling
- Input filter: Pi network
- Shielded metal case
- 2:1 wide input range
- Working temperature: -15° to +60°C
- 100% burn-in test
- Protection: short-circuit & overload
- One-year warranty



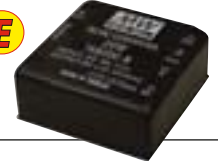
Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
155715CM	SKE15A-05	9-18V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	\$34.95	\$31.49	\$28.15	\$25.35
155707CM	SKE15A-12	9-18V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.19	28.15	25.35
155694CM	SKE15A-24	9-18V	+24V@625mA	15W	2x2x0.43	5	0.3	0.5	80	34.95	31.49	28.15	25.35
213276CM	SKE15B-05	18-36V	+5V@3000mA	15W	2x2x0.43	5	0.3	0.5	50	34.95	31.49	28.15	25.35
213284CM	SKE15B-12	18-36V	+12V@1250mA	15W	2x2x0.43	5	0.3	0.5	60	34.95	31.49	28.15	25.35
161728CM	DKE15A-12	9-18V	+12V@625mA; -12V@625mA	15W	2x2x0.43	5	0.3	0.5	60	35.95	32.36	25.88	19.41
213292CM	DKE15A-24	9-18V	+24V@313mA; -24V@313mA	15W	2x2x0.43	5	0.3	0.5	80	32.95	29.69	26.90	24.05

## 20-Watt Encapsulated

- Isolation voltage: 1000VDC
- Output trim
- Free-air convection cooling
- Working temp.: -40° to +71°C
- Industry standard package
- 100% burn-in test
- Shielded metal case
- Input filter: Pi network
- Protection: short-circuit & overload
- One-year warranty



**SALE**



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
217630CM	DKB20A-05	9-18V	+5V@2000mA; -5V@2000mA	20W	1.2x2x0.82	8	0.2	0.2	100	\$39.95	\$35.96	\$32.36	\$29.12
217648CM	TKB20C-B	36-72V	+5V@2500mA; ±12V@310mA	20W	1.2x2x0.82	8	0.2	0.2	100	36.75	32.95	31.47	28.61

## 30-Watt Encapsulated

- Isolation voltage: 1000VDC
- 2:1 wide input range
- Working temperature: -25° to +85°C
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- Output trim
- Remote ON/OFF
- Protection: short-circuit, overload & over-voltage
- One-year warranty



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
217234CM	SDM30-12S12	9-18V	+12V@2100mA	25.2W	2x1.8x0.62	8	1.0	1.0	100	\$34.95	\$31.77	\$28.88	\$26.26
217242CM	SDM30-24S12	18-36V	+12V@2500mA	30W	2x1.8x0.62	8	1.0	1.0	100	45.95	41.35	37.25	33.55

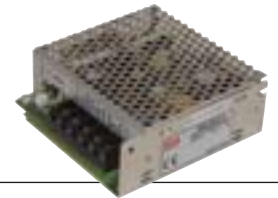
Blue Part No. = Limited Quantity Available

## 25-Watt Enclosed

- Isolation voltage: 500VDC
- 2:1 wide input range
- Working temperature: -10° to +60°C
- Protection: short-circuit, overload and over-voltage
- Input filter: Pi-network
- Shielded metal case
- 100% burn-in test
- One-year warranty
- See [www.Jameco.com](http://www.Jameco.com) for specifications



CE



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
175661CM	SD-25A-5	9-18V	+5V@5000mA	25W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.5	0.5	100	\$40.95	\$30.99	\$28.99	\$24.99
175804CM	SD-25A-12	9-18V	+12V@2100mA	25.2W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.3	0.3	120	37.95	34.16	27.32	20.49
175812CM	SD-25A-24	9-18V	+24V@1100mA	26.4W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.2	0.2	150	40.95	30.99	28.99	24.99

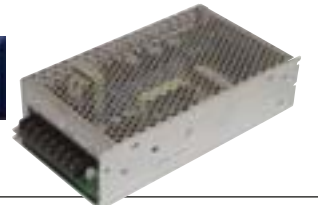
Blue Part No. = Limited Quantity Available

## 50, 100 & 150-Watt Enclosed

- Isolation voltage: 1500VDC
- One-year warranty
- 2:1 wide input range
- Protection: short-circuit, overload and over-voltage
- Mounting hardware: use P/Ns 222156CM & 222172CM
- Input filter: Pi-network
- Shielded metal case
- Working temperature: -10° to +60°C
- 100% burn-in test
- See [www.Jameco.com](http://www.Jameco.com) for specifications



CE



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
212548CM	SD-50A-5	9-18V	+5V@10A	50W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.5	0.5	100	\$35.79	\$32.53	\$29.58	\$26.89
212530CM	SD-50B-12	19-36V	+12V@4.2A	50.4W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.3	0.3	120	51.95	46.76	42.08	28.05
212513CM	SD-50B-24	19-36V	+24V@2.1A	50.4W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.2	0.2	150	35.79	32.21	25.77	24.15
212505CM	SD-50C-12	36-72V	+12V@4.2A	50.4W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	5	0.3	0.3	120	51.95	39.99	36.99	32.99
216565CM	SD-100B-12	19-36V	+12V@8.5A	102W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	7	0.3	0.3	120	72.95	65.66	59.09	49.24
212468CM	SD-100C-12	36-72V	+12V@8.5A	102W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	7	0.3	0.3	120	63.95	53.99	50.99	44.99
217269CM	SD-150B-12	19-36V	+12V@12.5A	150W	see <a href="http://www.Jameco.com">www.Jameco.com</a>	7	0.5	0.5	120	82.95	70.99	65.99	57.99

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

# 10 to 60-Watt Isolated DC-to-DC Converters

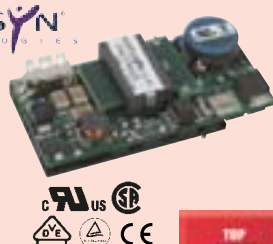
Other Versions  
Available: Call  
800-831-4242

Color Code Legend  
New Sale Lower\$ QtySave

## 10-Watt Open Frame ARTESYN

### CXA10 Series: Single Output

- Isolation voltage: 1500VDC
- Industry standard footprint
- Remote ON/OFF
- 4:1 input voltage range
- Protection: short-circuit & overload
- Working temp.: -40° to +100°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications



TOP  
QUALITY  
U.S. BRAND

## 15-Watt Open Frame ARTESYN

### CXE15 Series: Single Output

- Isolation voltage: 1500VDC
- Industry standard footprint
- Remote ON/OFF
- No minimum load
- Protection: over-voltage & over-current
- Working temperature: -40° to +65°C
- Output trim
- See [www.Jameco.com](http://www.Jameco.com) for specifications



30% Lower  
All Items

## 20-Watt Open Frame ARTESYN

### CXA20 Series: Single Output

- Isolation voltage: 1500VDC
- Output trim
- Industry standard footprint
- 100% burn-in test
- 4:1 input voltage range
- Protection: over-voltage, over-temperature & short-circuit
- Working temperature: -40° to +60°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications



## 60-Watt Open Frame ARTESYN

### EXQ60 Series: Dual Output

- Isolation voltage: 1500VDC
- Output trim
- Industry standard footprint
- Remote ON/OFF
- No minimum load
- Protection: short-circuit, over-current & over-voltage
- Working temperature: -40° to +100°C
- See [www.Jameco.com](http://www.Jameco.com) for specifications



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Ripple & Noise (mV p-p)	Pricing			
			Voltage@Current	Power						1	10	25	100
219037CM	CXA10-48S3V3	18-75V	+3.3V@2400mA	7.9W	2.0x1.0x0.54	6	0.1	0.2	30	\$17.89	\$16.99	\$16.15	\$15.34
219070CM	CXE15-48S1V8	33-75V	+1.8V@6000mA	10.8W	2.0x1.0x0.35	6	0.3	2.0	40	17.29	16.44	14.92	14.83
219088CM	CXE15-48S2V5	33-75V	+2.5V@6000mA	15W	2.0x1.0x0.35	6	0.3	1.5	40	17.29	16.44	15.62	14.83
219053CM	CXE15-48S3V3	33-75V	+3.3V@4500mA	15W	2.0x1.0x0.35	6	0.1	0.5	70	17.29	16.44	15.62	14.84
219061CM	CXE15-48S0V5	33-75V	+5V@3000mA	15W	2.0x1.0x0.35	6	0.1	0.5	70	17.29	16.44	15.62	14.83
219109CM	CXA20-48S3V3	18-75V	+3.3V@6000mA	19.8W	2.0x1.6x0.41	8	0.1	0.2	75	24.85	23.61	22.43	21.31
218894CM	EXQ60-48D3V3-2V5-R	33-75V	+2.5V@16A; +3.3V@12A	40W	2.3x1.5x0.50	7	—	—	60	53.89	51.26	48.70	46.26
218907CM	EXQ60-48D05-3V3-R	33-75V	+3.3V@15A; +5V@12A	60W	2.3x1.5x0.50	7	—	—	60	53.89	51.26	48.70	46.26

Blue Part No. = Limited Quantity Available

# 6 to 15-Amp Non-Isolated, Point-of-Load DC-to-DC Converters

## 6-Amp SIL06C Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- Ultra-wide trim range
- "Power good" signal
- Planar magnetics technology
- Protection: over-current & short-circuit
- Working temperature: 0° to +80°C (derated above 50°C)

ARTESYN

219150CM



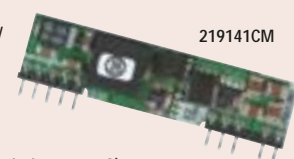
219168CM

## 10-Amp SIL10E Series

- di/dt: 10A/μs
- 100% burn-in test
- No minimum load
- Remote ON/OFF
- 96% efficiency at 3.3V
- Highest power density: 107W/in<sup>3</sup>
- Planar magnetics technology
- Protection: thermal & short-circuit
- Working temperature: -40° to +100°C (derated above 70°C)

ARTESYN

219141CM



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	MTBF (hours)	Pricing			
			Voltage@Current	Power								1	10	25	100
219150CM	SIL06C-05SADJ-V	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.07	8	0.2	0.5	0 to +80	89	1,300,000	\$5.89	\$5.59	\$5.31	\$5.04
219168CM	SIL06C-05SADJ-H	4.5V-5.5V	0.9-3.3V@6A	20W	1.2x0.6x0.53	8	0.2	0.5	0 to +80	89	1,300,000	5.89	5.59	5.31	5.04
219141CM	SIL10E-05S1V8-V	3.0V-5.5V	1.8V@10A	18W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	92	7,042,000	11.39	10.83	10.28	9.77
219133CM	SIL10E-05S2V5-V	3.0V-5.5V	2.5V@10A	25W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	94	7,042,000	11.39	10.83	10.28	9.77
219117CM	SIL10E-05W3V3-V	4.5V-5.5V	0.8-3.6V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	11.39	10.83	10.28	9.77
219125CM	SIL10E-05S3V3-V	4.5V-5.5V	3.3V@10A	33W	2.0x0.5x0.31	11	1.0	1.0	-40 to +100	95	7,042,000	11.39	10.83	10.28	9.77

Blue Part No. = Limited Quantity Available

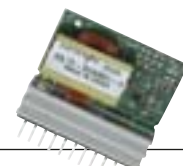
## 15-Amp SIL15C Series

- di/dt: 10A/μs
- Ultra-wide trim range
- Working temperature: 0° to +80°C (derated above 50°C)
- 100% burn-in test
- Protection: over-current & short-circuit
- No minimum load
- Remote ON/OFF
- Two-year warranty

ARTESYN



SALE



Jameco Part No.	Product No.	Input Range	Output		Size Inches (LxWxH)	Pins	Line Reg. (±%)	Load Reg. (±%)	Temp. °C	Efficiency (%)	Pricing			
			Voltage @ Current	Power							1	10	25	100
218886CM	SIL15C-05SADJ-V	4.5V-5.5V	0.9V-3.3V@15A	50W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	89	\$9.19	\$8.32	\$7.59	\$6.89
218878CM	SIL15C-12SADJ-V	10.2V-13.8V	0.9V-5V@15A	75W	1.20x1.10x0.40	13	0.2	0.5	0 to +80	91	11.69	10.63	9.62	8.65

Blue Part No. = Limited Quantity Available

# AC-to-DC Regulated Switching Table-Top Power Supplies

We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 250 for International Power Cords



211300CM



391769CM



220441CM



220441CM



DIN M

Polarity 1 (center negative)



Female



Male

Polarity 2 (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Switching																	
12-24 Watt	379612CM	Mean Well ☺	ES25B05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	\$20.69	\$18.53	\$16.22	\$15.45
	377924CM	Mean Well ☺	P30B-1P2JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	380621CM	Mean Well ☺	ES25B05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379760CM	Mean Well ☺	P30B-1P2MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	25.99	21.79	20.99	20.55
	211300CM	Artesyn	SSL20-7605	20	+5/4.0	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.3 x 1.0	6'/ <sup>3</sup>	1.5	UL/CSA/VDE/CE	24.95	22.49	17.99	13.49
	379920CM	Mean Well ☺	ES25B07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380672CM	Mean Well	ES25B07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	195805CM	Horizon ☺	DCR920F12	18	+9/2.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	26.95	24.25	21.85	19.65
	195768CM	Horizon ☺	DCR920F52	18	+9/2.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.9	UL/CUL/TUV/CE	22.95	20.66	16.52	15.55
	391769CM	Mean Well ☺	ES18B12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	673651CM	Artesyn	SSL20C-7612	20	+20/1.67	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.6 x 2.4 x 1.1	3'3"/ <sup>3</sup>	0.4	UL/CSA/VDE	17.95	16.49	14.59	11.49
391777CM	Mean Well ☺	ES18B24-P1JU	18	+24/0.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29	
196138CM	DVE	DSA-0283A	23	+5/1, +12/1.49	100-240@47-63	5-pin DIN M	No	Black	4.9 x 2.7 x 1.5	6'/ <sup>3</sup>	0.8	UL/CSA/TUV	16.95	15.25	12.19	9.15	
25-29 Watt	379938CM	Mean Well ☺	ES25B09-P1JU	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380681CM	Mean Well ☺	ES25B09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377932CM	Mean Well ☺	P30B-2P2JU	26	+9/2.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379786CM	Mean Well ☺	P30B-2P2MU	26	+9/2.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	25.99	21.79	20.99	20.55
	379946CM	Mean Well ☺	ES25B12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380701CM	Mean Well ☺	ES25B12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377941CM	Mean Well ☺	P30B-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379794CM	Mean Well ☺	P30B-3P2MU	27	+12/2.25	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.17	20.50	19.26
	379954CM	Mean Well ☺	ES25B15-P1JU	25	+15/1.67	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380710CM	Mean Well ☺	ES25B15-P1MU	25	+15/1.67	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377959CM	Mean Well ☺	P30B-4P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.17	19.14	18.18
	379655CM	Mean Well ☺	P30B-4P2MU	27	+15/1.8	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	25.99	21.79	20.99	20.55
	379962CM	Mean Well ☺	ES25B18-P1JU	25	+18/1.39	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380728CM	Mean Well ☺	ES25B18-P1MU	25	+18/1.39	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379971CM	Mean Well ☺	ES25B24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380761CM	Mean Well	ES25B24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	221612CM	Mean Well ☺	P30B-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	25.95	23.35	20.99	18.99
379989CM	Mean Well ☺	ES25B28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
380779CM	Mean Well	ES25B28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
205911CM	Delta	ADP-25HB	25	+30/0.83	100-125@50-60	2.1mm x 5.5mm F 2	No	Black	3.5 x 2.4 x 1.2	6'/7'	1.1	UL/CUL	17.49	15.75	12.59	9.45	
379997CM	Mean Well ☺	ES25B48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
380808CM	Mean Well ☺	ES25B48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.1 x 2.1 x 1.3	6'/6'	0.5	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
30-65W	220441CM	Horizon	SL120300RT	36	+12/3.0	100-240@50-60	2.5mm x 5.5mm F 2 <sup>†</sup>	Yes	Black	4.3 x 2.0 x 1.2	6'/ <sup>3</sup>	0.6	UL/CUL/TUV/CE	29.95	26.99	24.29	21.85
	230499CM	Phihong 🐉	PSA60W-120	50	+12/4.2	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6'/ <sup>3</sup>	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	28.08
	645271CM	—	SDA5524	55	+24/2.3	120-240@50-60	2.5mm x 5.5mm F 2 <sup>†</sup>	Yes	Black	5.1 x 2.4 x 1.4	7'/ <sup>3</sup>	0.5	UL/CUL/TUV/CE	29.95	26.95	24.75	19.95
	229841CM	Phihong ☺	PSA60W-240	60	+24/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.0 x 2.5 x 1.3	6'/ <sup>3</sup>	0.5	UL/CUL/TUV/CE	36.49	32.85	29.55	28.08

\* See accessory table-top power cord chart on page 215 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

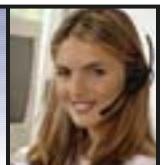
† Right angle

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

3-Wire Table-Top Power Supplies on next page

Over 99% of Our Catalog Products Are In Stock

Place your order by 6PM EST for same business-day shipment.





# AC-to-DC Regulated Switching Table-Top Power Supplies

Color Code Legend  
New Sale Lower\$ QtySave

We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 250 for International Power Cords



308700CM



159353CM



243011CM



206455CM

Quantity SAVE



DIN M

Polarity 1 (+) (-) (-) (center negative)



Female



Male

Polarity 2 (-) (-) (+) (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching																	
5-20 Watt	221567CM	Mean Well ☺	P40A-OP2JU	15	+3.3/4.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	\$22.99	\$20.69	\$18.83	\$17.84
	308700CM	Be-Well	ZD0001F	5	+5/1.0	100-240@50-60	2.1mm x 5.5mm F 2 ↑	No	Black	4.2 x 2.0 x 1.6	6'/2	0.4	UL/CUL/TUV/CE	\$16.99	14.99	12.75	9.55
	309876CM	Go Forward	G112-USO520	10	+5/2.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	2.6 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	17.75	15.98	12.78	9.59
	196218CM	GlobTek ☺	GT210891005T3	10	+5/2.0	120-240@50-60	2.1mm x 5.5mm F 2	No	Black	3.4 x 1.9 x 1.3	6'/2	0.4	UL/CUL/TUV/CE	19.95	17.95	16.15	14.55
	355717CM	CUI Stack	DSA-0151D-05	12	+5/2.4	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.0 x 1.4	6'/1	0.5	UL/CUL/TUV/CE	17.29	16.18	14.40	14.32
	377844CM	Mean Well ☺	ES18A05-P1JU	15	+5/3.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379719CM	Mean Well ☺	ES18A05-P1MU	15	+5/3.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	355506CM	APS	AD-740U-1050/LP	15	+5/3.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.6	6'/1	0.8	UL/CUL/TUV/CE	17.29	15.56	12.45	9.34
	379591CM	Mean Well ☺	ES25A05-P1JU	20	+5/4.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380470CM	Mean Well ☺	ES25A05-P1MU	20	+5/4.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	213583CM	Mean Well ☺	P30A-1P2JU	20	+5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	23.69	21.35	19.19	17.49
	377861CM	Mean Well ☺	ES18A09-P1JU	18	+9/2.0	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/2	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379735CM	Mean Well ☺	ES18A09-P1MU	18	+9/2.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	303538CM	Potrans	UP01411120	12	+12/1.0	100-250@50-60	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	16.75	13.37	11.70	11.14
	228988CM	Phihong ☺	PSA18U-120	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/2	0.5	UL/CUL/TUV/CE	22.95	20.65	18.59	17.53
	376622CM	Mean Well ☺	ES18A12-P1JU	18	+12/1.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	379701CM	Mean Well ☺	ES18A12-P1MU	18	+12/1.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
	320231CM	3-Com ✓	10030973	18	+12/1.5	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.1 x 2.0 x 1.4	6'/2	0.4	UL/CUL/TUV/CE	15.19	13.67	10.94	8.20
	298062CM	Potrans	UP01831120	18	+12/1.5	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	3.7 x 2.2 x 1.3	7'/2	0.4	UL/CUL/ICE	15.45	13.90	11.12	8.34
	377879CM	Mean Well ☺	ES18A15-P1JU	18	+15/1.2	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29
379743CM	Mean Well ☺	ES18A15-P1MU	18	+15/1.2	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.65	18.95	16.41	16.29	
303546CM	Potrans	UP01811180	18	+18/1.0	100-250@50-60	2.1mm x 5.5mm F 2	No	Black	4.1 x 2.5 x 1.3	4'/2	0.4	UL/CSA/TUV/CE	19.55	17.60	14.08	10.56	
394231CM	Mean Well ☺	ES18A24-P1JU	18	+24/0.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CUL/TUV/CCC/CB/CE	20.65	18.95	16.41	16.29	
159353CM	Mean Well	KA60AU	17	+5/1, ±12/0.5	100-240@50-60	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.5	6'/5'	1.0	UL/CSA/TUV	36.95	33.26	26.60	21.89	
364146CM	Ault	SW306KF	17	+5/1, ±12/0.8-12/0.2	100-250@50-60	5-pin DIN M	No	Black	5.1 x 3.0 x 1.6	6'/1	1.1	UL/CSA/TUV/CE	26.95	24.26	19.40	14.55	
21-29 Watt	213575CM	Mean Well ☺	P40A-1P2JU	25	+5/5.0	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV/CE	29.95	26.96	21.56	18.27
	379698CM	Mean Well ☺	ES25A07-P1JU	22	+7.5/2.93	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380496CM	Mean Well	ES25A07-P1MU	22	+7.5/2.93	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377908CM	Mean Well ☺	P30A-1-1P2JU	23	+7.5/3.06	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379751CM	Mean Well ☺	P30A-1-1P2MU	23	+7.5/3.06	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	23.69	21.80	20.76	20.43
	379727CM	Mean Well ☺	ES25A09-P1JU☺	25	+9/2.78	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	211027CM	Mean Well	KA52B25-M0DU	25	+9/2.78	100-240@47-63	2.1mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/2	0.9	CSA/TUV/CE	\$17.95	9.35	8.55	7.73
	380517CM	Mean Well	ES25A09-P1MU	25	+9/2.78	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	211019CM	Mean Well	KA52B	25	+9/2.78	100-240@47-63	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/2	0.9	UL/CSA/TUV/CE	29.95	26.96	24.29	21.85
	379778CM	Mean Well ☺	ES25A12-P1JU	25	+12/2.08	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380533CM	Mean Well	ES25A12-P1MU	25	+12/2.08	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	377895CM	Mean Well ☺	P30A-3P2JU	27	+12/2.25	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	23.69	21.80	20.76	19.71
	379823CM	Mean Well ☺	ES25A15-P1JU	25	+15/1.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380541CM	Mean Well ☺	ES25A15-P1MU	25	+15/1.66	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	243011CM	Mean Well ☺	P30A-41P2JU	27	+15/1.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.2 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	23.69	21.80	20.76	19.71
	206455CM	Ault	SC100	25	+16/1.56	100-240@50-60	2.5mm x 5.5mm F 2	No	Black	4.2 x 2.6 x 1.5	6'/6'	1.2	UL/CUL/TUV/CE	14.95	13.46	10.76	8.07
	379840CM	Mean Well ☺	ES25A18-P1JU	25	+18/1.38	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380550CM	Mean Well ☺	ES25A18-P1MU	25	+18/1.38	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379882CM	Mean Well ☺	ES25A24-P1JU	25	+24/1.04	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
380576CM	Mean Well ☺	ES25A24-P1MU	25	+24/1.04	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45	
221680CM	Mean Well ☺	P30A-6P2JU	27	+24/1.1	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CSA/TUV/CE	26.95	24.29	21.85	19.65	

\* See accessory table-top power cord chart on page 215 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

† Right angle

⊕ Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies continued on next page

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

# AC-to-DC Regulated Switching Table-Top Power Supplies

See page 250 for International Power Cords

We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.



206527CM



229032CM



211191CM




211107CM



Female




Male

Polarity 2  (center positive)



DIN M

Polarity 1  (center negative)



Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
21-29 Watt	379891CM	Mean Well ☺	ES25A28-P1JU	25	+28/0.89	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	\$20.69	\$18.53	\$16.22	\$15.45
	380584CM	Mean Well ☺	ES25A28-P1MU	25	+28/0.89	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	379903CM	Mean Well ☺	ES25A48-P1JU	25	+48/0.52	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	380605CM	Mean Well ☺	ES25A48-P1MU	25	+48/0.52	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	3.7 x 2.1 x 1.4	6'/6'	0.6	UL/CSA/TUV/CE	20.69	18.53	16.22	15.45
	215087CM	Mean Well ☺	P30A-8P2JU	27	+48/0.56	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CSA/TUV/CE	21.89	19.89	18.09	16.59
	196269CM	Everglow ☺	PSU25A13	25	+5/2.5, +12/1.0	100-240@47-63	4-pin mini DIN M	No	Black	4.2 x 2.6 x 1.4	6'/4'	1.2	UL/CUL/TUV/CE	27.95	25.19	22.65	20.39
	190650CM	Ault	SW300	25	+5/4, +12/1.0	100-250@50-60	5-pin DIN M	No	Black	5.9 x 3.4 x 2.1	6'/ <sup>2</sup>	1.5	UL/CSA/TUV	9.95	8.96	8.06	7.25
	190959CM	Mean Well ☺	P25A13D-R1U	26	+5/2.5, +12/0.8	100-240@47-63	5-pin DIN M	Yes	Black	4.1 x 2.6 x 1.4	6'/6'	1.1	CUL/TUV/CE	32.95	29.69	26.69	24.05
	221719CM	Mean Well ☺	P25A14E-R1BU	25	+5/2.5, +15/0.3	90-264@47-63	5-pin DIN M	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	32.95	29.69	26.69	24.05
30-40 Watt	320080CM	GlobTek	TR9CA6000LCP-Y	30	+5/6.0	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.7 x 2.4 x 1.3	6'/ <sup>2</sup>	0.7	UL/CUL/TUV/CE	24.69	22.89	20.59	18.55
	206527CM	Mean Well ☺	P40A-1-1P25U	30	+7.5/4.0	100-240@50-60	2.1mm x 5.5mm F 2	No	Black	4.3 x 2.7 x 1.5	6'/6'	1.5	UL/CUL/TUV/CE	29.95	26.95	23.95	21.95
	229008CM	Phihong ☺	PSA31U-120	30	+12/2.5	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ <sup>2</sup>	0.5	UL/CUL/TUV/CE	26.95	24.25	21.85	20.66
	401041CM	ReliaPro	EA10362	36	+12/3.0	120-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	3.9 x 1.8 x 1.2	6'/ <sup>3</sup>	0.6	UL/CUL/TUV/CE	23.69	21.17	19.14	18.19
	155213CM	Mean Well ☺	P40A-3P2JU☺	40	+12/3.3	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/TUV	35.95	32.36	29.12	26.21
	297692CM	Mean Well ☺	P40A-3P2MU	40	+12/3.3	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	355063CM	ReliaPro ☺	JR-TT-40-12	40	+12/3.33	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/ <sup>2</sup>	0.6	UL/CUL/TUV/CE	29.39	23.51	20.58	19.52
	229016CM	Phihong ☺	PSA31U-150	30	+15/2.0	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ <sup>2</sup>	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221575CM	Mean Well ☺	P40A-4P2JU	40	+15/2.7	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	33.95	30.56	27.50	24.75
	230480CM	Phihong ☺	PSA31U-180	30	+18/1.6	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	3.9 x 2.2 x 1.2	6'/ <sup>2</sup>	0.5	UL/CUL/TUV/CE	30.95	27.79	25.09	23.85
	229024CM	Phihong ☺	PSA31U-240	30	+24/1.25	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.4	6'/ <sup>2</sup>	0.5	UL/CUL/TUV/CE	26.95	24.95	22.99	21.95
	181884CM	Mean Well ☺	P40A-6P2JU	40	+24/1.7	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/TUV/CE	35.95	32.36	29.12	26.21
	297756CM	Mean Well ☺	P40A-6P2MU	40	+24/1.7	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.7	UL/CUL/VDE/CE	35.95	32.36	29.12	26.21
	229032CM	Phihong ☺	PSA31U-480	30	+48/0.63	90-264@47-63	2.1mm x 5.5mm F 2	No	Black	4.5 x 2.4 x 1.6	6'/ <sup>2</sup>	0.5	UL/CUL/TUV/CE	26.95	24.25	22.12	21.90
	221583CM	Mean Well ☺	P40A-8P2JU	40	+48/0.8	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	4.3 x 2.6 x 1.4	6'/6'	0.8	UL/CUL/TUV/CE	33.95	30.56	27.50	24.75
211191CM	Westinghouse	FSA30P31	30	+5/3, ±12/0.8	85-264@47-63	5-pin DIN M	No	Black	5.8 x 3.0 x 1.7	4'/ <sup>2</sup>	1.1	UL/CSA/TUV	25.95	23.35	18.68	14.01	
404443CM	AcroPower	ASX30T-577/07	30	+5/3, +12/0.1	100-240@50-60	5-pin DIN M	No	Black	6.0 x 3.5 x 2.0	6'/6'	2.0	UL/CUL/CE	19.95	17.95	14.36	10.77	
41-59 Watt	221487CM	Mean Well ☺	SPU50-1U	50	+5/10	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	2.0	UL/CUL/TUV/CE	36.95	33.95	31.95	29.49
	622547CM	Samsung	AD-4212L	42	+12/3.5	100-240@50/60	1.6mm x 4.0mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/ <sup>2</sup>	0.6	UL/CUL/CE	21.95	19.75	15.80	11.85
	622555CM	Samsung	AD-4212L-2.1	42	+12/3.5	100-240@50-60	2.1mm x 5.5mm F 2	Yes	Black	4.5 x 2.1 x 1.2	6'/ <sup>2</sup>	0.6	UL/CUL/CE	24.95	22.45	17.96	13.47
	447099CM	Potrans	UP0482112D	48	+12/4	100-240@50-60	2.5mm x 5.5mm F 2	Yes	Black	4.6 x 2.5 x 1.4	6'/ <sup>2</sup>	0.7	UL/CUL/TUV	32.69	26.13	22.86	21.69
	221701CM	Mean Well ☺	P50A13D-R1BU	50	+5/4.0, +12/2.0	90-264@47-63	5-pin DIN M	Yes	Black	5.7 x 3.0 x 1.7	4'/6'	1.5	UL/CUL/TUV/CE	48.95	44.09	39.69	35.69
	211107CM	Fortron	FSA55P31	45	+5/5, +12/3	85-264@50-60	5-pin DIN M	Yes	Black	7.0 x 3.8 x 2.2	4'/ <sup>2</sup>	1.6	UL/CSA/TUV	49.95	44.96	35.96	26.24
237366CM	Mean Well ☺	P50A14E-R1BU	42	+5/3.5, +15/1.2	100-240@47-63	5-pin DIN M	Yes	Black	5.8 x 3.0 x 1.7	4'/6'	1.2	UL/CUL/TUV/CE	39.95	38.31	36.39	34.57	
60-80 Watt	155230CM	Mean Well ☺	SPU50-3U	60	+12/5.0	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CSA/TUV	49.95	44.95	39.95	35.95
	297721CM	Mean Well ☺	SPU50-3P2MU	60	+12/5.0	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6'/6'	1.3	UL/CUL/TUV/CE	49.95	44.95	39.95	35.95
	376606CM	Mean Well ☺	P66A-3P2JU	66	+12/5.5	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	34.95	31.95	30.95	29.45
	379671CM	Mean Well ☺	P66A-3P2MU	66	+12/5.5	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	37.59	35.79	34.09	32.45
	391742CM	Mean Well ☺	P66A-4P2JU☺	66	+15/4.4	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CSA/TUV/CE	38.45	34.85	31.39	29.45
	182959CM	Elpac	W7212	72	+12/6.0	95-250@47-63	5-pin DIN M	—	Black	6.2 x 3.8 x 2.6	6'/6'	2.5	UL/CSA/CE	54.95	49.49	39.59	29.69
	221428CM	Mean Well ☺	U65S105-P2JU	80	+12/6.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	58.46	52.61	43.84
	221436CM	Mean Well ☺	U65S106-P2JU	80	+15/5.33	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	243045CM	Mean Well ☺	P66A-5P2JU☺	66	+18/3.66	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6'/6'	1.2	UL/CUL/TUV/CE	38.49	34.91	32.21	30.41
221444CM	Mean Well ☺	U65S107-P2JU	80	+18/4.4	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6'/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49	

\* See accessory table-top power cord chart on page 215 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

Ⓢ Blue Part No. = Limited Quantity Available

3-Wire Table-Top Power Supplies continued on next page

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

Color Code Legend  
**New** **Sale** **Lower\$** **QtySale**

Order 24/7 Toll Free 1-800-831-4242

235

# AC-to-DC Regulated Switching Table-Top Power Supplies (Continued)

Color Code Legend  
New Sale Lower\$ QtySave

See page 250 for International Power Cords

We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.



297633CM



355055CM



172064CM



221461CM

Polarity 1 (+) (center negative)










Female



Male

Polarity 2 (-) (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
3-Wire AC Input – Regulated Switching (Continued)																	
60-80 Watt	161606CM	Mean Well 	SPU50-6U	60	+24/2.5	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.6	1'9/16'	1.3	UL/CSA/TUV	\$44.95	\$39.95	\$35.95	\$32.95
	297633CM	Mean Well 	SPU50-6P2MU	60	+24/2.5	95-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.7 x 3.0 x 1.7	6/6'	1.3	UL/CUL/TUV/CE	44.95	39.95	35.95	32.95
	355055CM	ReliaPro	JR-TT-66-24	66	+24/2.75	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6/1' 2	1.2	UL/CUL/TUV/CE	34.95	32.21	28.68	27.31
	221452CM	Mean Well 	U65S108-P2JU	80	+24/3.3	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x1.8	6/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49
	376614CM	Mean Well 	P66A-8P2JU	66	+48/1.37	90-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6/6'	1.2	UL/CSA/TUV/CE	34.95	31.92	27.93	26.59
	379680CM	Mean Well 	P66A-8P2MU	66	+48/1.37	90-264@47-63	2.5mm x 5.5mm F 2	Yes	Black	5.8 x 3.0 x 1.7	6/6'	1.2	UL/CSA/TUV/CE	37.59	35.79	34.09	32.45
	172064CM	Mean Well 	SPU50-9U	60	+48/1.25	100-240@47-63	2.1mm x 5.5mm F 2	Yes	Black	5.6 x 2.9 x 1.7	6/6'	1.3	UL/CSA/TUV	44.95	40.49	36.45	32.79
	221461CM	Mean Well 	U65S111-P2JU	80	+48/1.7	95-264@47-63	2.1mm x 5.5mm F 2	Yes	Black	6.6 x 3.1 x 1.8	6/6'	2.0	UL/CUL/TUV/CE	64.95	55.29	49.95	47.49

\* See accessory table-top power cord chart on page 212 when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

## Compact DC Regulated Switching Power Adapter with Detachable Plugs

This state-of-the-art switching power adapter offers some major advantages such as stabilized outputs, short circuit and overload protection, compact design, and low idle consumption versus typical wall adapters.

- 8 plugs: 2.5mm M mono, 3.5mm M mono, 1.0mm x 3.0mm F, 1.3mm x 3.5mm F, 1.7mm x 4.0mm F, 2.1mm x 5.0mm F, 1.5mm x 5.5mm F, and 2.5mm x 5.5mm F
- Selectable output voltages: 3 / 4.5 / 6 / 7.5 / 9 / 12 VDC @ 800mA (regulated) with 1.5A max. output

See pages 238-243 for our selection of wall adapters.



Part No.	Description	Input Voltage	Power Output	Efficiency	Size	Wt. (lbs.)	Price
239564CM	Compact power adapter	100-240VAC	10W	80%	2.9"H x 1.2"W x 1.9"D	0.2	\$19.95

Blue Part No. = Limited Quantity Available

## AC-to-DC Regulated Linear Table-Top Power Supplies

We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 250 for International Power Cords



211060CM



174844CM



265295CM



318756CM

DIN M

Polarity 1 (+) (center negative)



Female



Male

Polarity 2 (-) (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Pwr (W)	Volts (VDC)/ Current (A)									1	10	50	100
2-Wire AC Input – Regulated Linear																	
5-25	211060CM	Pacific Data	DV-51AAT	5	+5/1	120@60	2.1mm x 5.5mm rt angle F 2	No	Black	3.4 x 2.7 x 2.2	6'6'6'	1.7	UL/CSA	\$11.95	\$10.76	\$8.85	\$6.45
	174844CM	Jameco 🟢	DCR2410F12	24	+24/1	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.0 x 2.5	6'6'	2.6	—	18.65	16.78	13.42	10.07
3-Wire AC Input – Regulated Linear																	
3-15	664261CM	Intermec	062035	3.75	+5/0.75	120@60	4-pin DIN M	No	Black	4.4 x 2.5 x 2.0	6'6'	1.6	UL/CSA	\$14.95	\$13.49	\$10.76	\$8.07
	265295CM	—	T5121000/37	12.2	+5/1, ±12/0.3	120@60	5-pin DIN M	No	Black	4.5 x 3.0 x 2.5	6'6'	2.6	UL/CSA	9.69	8.72	6.97	5.23
	318756CM	Adcom	WM113TT	13	+5/0.86, ±12/0.3	115@60	5-pin DIN M	No	Black	4.9 x 3.0 x 2.2	6'6'	1.3	UL/CSA	31.99	27.15	25.35	24.29

▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



# AC-to-DC Unregulated Table-Top Power Supplies


We will change any power plug (pg 163) on any table-top power supply (100 pc. minimum) for a small additional charge.

See page 250 for International Power Cords




**Quantity SAVE**

Stripped

Polarity 1  (center negative)

Female

Male

Polarity 2  (center positive)

Power	Part Number	Brand ▲	Product Number ▲	Output		Input VAC@Hz	Output Connector ID x OD/Polarity F = female; M = male	Pwr. Ind.	Color	Size (L" x W" x H")	Cords* (DC/AC)	Wt. (lbs.)	Agency Approvals	Pricing			
				Power (W)	Volts (VDC)/Current (A)									1	10	50	100
2-Wire AC Input – Unregulated																	
9-30 Watts	190051CM	APS	APS48EA114	10	+7/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.3 x 1.9	6'/6"	1.9	UL/CUL	\$9.95	\$8.99	\$7.19	\$5.39
	243109CM	Regal	JK-91001-N	9	+9/1.0	120@60	Stripped & Tinned	No	Black	3.3 x 2.2 x 1.9	6'/6"	1.2	UL/CSA	13.95	12.56	10.04	7.53
	354941CM	Terayon ✓	AD-121ADT	12	+12/1.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.2 x 2.3 x 1.9	6'/6"	1.4	UL/CUL	\$14.95 12.95	11.49	8.75	6.09
	136565CM	Jameco	DDC1210P	12	+12/1.0	120@60	Stripped & Tinned	No	Black	3.2 x 2.2 x 1.9	6'/6"	1.2	—	15.35	13.82	11.05	8.29
	140880CM	Jameco	DC1215ST	18	+12/1.5	120@60	Stripped & Tinned	No	Black	3.1 x 2.1 x 1.9	6'/6"	1.5	UL	14.25	12.82	11.54	10.39
	143714CM	— ⊕	DC1220F1	24	+12/2.0	120@60	2.1mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6"	2.2	CUL-No UL	16.45	14.80	13.32	11.99
	143722CM	Jameco ⊕	DC1220F5	24	+12/2.0	120@60	2.5mm x 5.5mm F 2	No	Black	3.8 x 2.8 x 2.3	6'/6"	2.2	UL/CUL	14.25	12.82	11.61	10.44
	143731CM	— ⊕	DC1220M3	24	+12/2.0	120@60	3.5mm M 2	No	Black	3.8 x 2.8 x 2.3	6'/6"	1.9	CUL-No UL	14.25	12.64	10.33	7.69
	139096CM	Jameco	DC2412F1	29	+24/1.2	120@60	2.1mm x 5.5mm F 2	No	Black	4.4 x 3.1 x 2.6	6'/6"	2.5	—	16.45	14.80	13.32	11.99
173665CM	SkyNet	DND-3005	15	+30/0.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.0 x 2.5 x 2.2	5'9"/3'2"	1.4	UL/CUL	11.95	10.76	8.60	6.45	
3-Wire AC Input – Unregulated																	
15-25	319222CM	—	SPU15A-3	15	+12/1.25	120@60	Stripped & Tinned	Yes	Black	3.6 x 1.5 x 1.4	15'3"/2'	—	UL/CUL/CE	\$15.65	\$14.08	\$11.27	\$8.45
	157956CM	Everglow	EFU120150	18	+12/1.5	120@60	2.5mm x 5.5mm F 2	No	Black	3.4 x 2.7 x 2.2	6'/6"	2.0	UL	12.05	10.84	9.76	8.78
	196306CM	—	A51813D	23	+18/1.3	120@60	2.5mm x 5.5mm F 2	No	Black	3.6 x 2.4 x 2.0	6'/6"	1.8	UL/CSA	12.95	11.69	9.34	7.04

\* See accessory table-top power cord chart below when AC cord needed; refer to 1, 2 or 3 in "Cord (DC/AC)" column above for correct power cord

▲ Brand and product number may vary except for ReliaPro, Mean Well, Pihong and GlobTek



38041CM



38050CM

## \* Accessory Power Input Cords for Table-Top Power Supplies



189587CM

For Additional Power Cords See Pages 248-249.

Part No.	Ref. No. *	Description	Color	AWG	Certification	Cord Length	Wt. (lbs.)	Cord Type	1	10	50	100
38041CM	1	3-conductor power cord	Beige	18/3	UL/CSA	6'	0.4	SVT	\$3.49	\$3.15	\$2.51	\$1.88
38050CM	2	3-conductor power cord	Black	18/3	UL/CSA	6'	0.4	SVT	3.75	3.29	2.87	2.12
189587CM	3	2-conductor power cord	Black	18/2	UL/CSA	6'	0.3	SPT	2.95	2.65	2.37	2.10

**SALE**

## Medical Table-Top & Wall Switching AC-to-DC Power Supplies

GlobTek®

### AC-to-DC Medical Table-Top Regulated Switching Power Supplies

- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA maximum
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Cord lengths: DC: 6'; AC: use P/N 115078CM, pg 248
- Size: 2.9"L x 2.0"W x 1.6"H
- UL/CUL/TUV/CE approved for medical applications



GlobTek®

### AC-to-DC Medical Regulated Switching Wall Adapters

- Input voltage: 100-240VAC @ 47-63Hz
- 3-prong input plug
- Leakage current: 0.1mA maximum
- Isolation voltage: 4,000VAC
- Regulation (line & load): ±5%
- Ripple and noise: 1% or 100mV, whichever is smaller
- 2.5mm x 5.5mm female center positive
- Output cord length: 6'
- Size: 2.9"H x 1.9"W x 1.6"D
- Agency approval: UL/CUL/TUV/CE approved for medical applications



**SALE**

Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230658CM	TR9CA2600CP	13.0	+5/2.6	\$28.95	\$26.06	\$23.72	\$22.47
230682CM	TR9CE1250CP	15.6	+12/1.3	32.95	29.65	26.69	23.99
230691CM	TR9CG1200CP	18.0	+15/1.2	32.95	29.65	26.69	23.99
230711CM	TR9CI750CP	16.8	+24/0.7	22.39	20.35	18.48	16.80
230738CM	TR9CA6000LCP	30.0	+5/6.0	46.95	42.26	33.80	32.08
230763CM	TR9CE4000LCP	49.2	+12/4.0	52.95	47.65	42.89	38.59
230772CM	TR9CG3333LCP	49.5	+15/3.3	46.95	42.26	33.80	32.08
230797CM	TR9CI2100LCP	50.4	+24/2.1	52.95	47.66	38.12	32.08

Blue Part No. = Limited Quantity Available

Part Number	Product Number	Power (W)	Output Volts (VDC)/Current (A)	Pricing			
				1	10	50	100
230842CM	WR92E1250LCP	15.6	+12 @ 1.3	\$30.95	\$27.86	\$25.07	\$22.56
230877CM	WR92I750LCP	16.8	+24 @ 0.75	25.45	23.15	21.05	19.15

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. This product has a RoHS equivalent, manufacturer may vary.

JAMECO ReliaPro

## "Slim Line" Regulated Switching Wall Adapters

Compact in size and lightweight, they are the perfect power solution in all those applications where space is critical. And their high efficiency satisfies requirements for minimizing power losses. You no longer have to deal with traditional wall adapters that block unused outlets in wall plates and power strips/surge protectors.

- 2-wire AC input
- Input voltage: 100 – 240VAC @ 47-63Hz
- Output cord length: 6'
- Output connector: 2.1mm x 5.5mm F2 (center positive)

Blue Part No. = Limited Quantity Available

A Jameco  
EXCLUSIVE

We'll Brand the Adapters  
With Your Company Name  
Call 1-800-831-4242 for Details

- Color: black
- One-year warranty



Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
251563CM	S08AA033150	3.3	1500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
251598CM	S15AA033250	3.3	2500	2.9x1.3x2.2	0.3	12.65	11.47	10.59	10.22
252700CM	S08AB050050	5.0	500	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.34
252718CM	S08AB050100	5.0	1000	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252726CM	S08AB050150	5.0	1500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.21
252734CM	S15AB050250	5.0	2500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252751CM	S08AD090050	9.0	500	2.5x1.1x1.7	0.2	12.05	10.94	10.09	9.74
252769CM	S08AD090090	9.0	800	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252777CM	S15AD090120	9.0	1200	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252785CM	S15AS090170	9.0	1500	2.9x1.3x2.2	0.3	13.75	12.47	11.52	11.11
252793CM	S08AE120025	12.0	250	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33

Part Number	Cross Ref. Number	Output Rating		Size (H"xW"xD")	Wt. (lbs.)	Pricing			
		Volt (VDC)	Curr. (mA)			1	10	50	100
252806CM	S08AE120050	12.0	500	2.5x1.1x1.7	0.2	\$12.05	\$10.93	\$10.09	\$9.74
252814CM	S08AE120070	12.0	600	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
252822CM	S15AE120100	12.0	1000	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252831CM	S15AE120140	12.0	1250	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
252890CM	S08AF150050	15.0	500	2.5x1.1x1.7	0.2	12.65	11.47	10.59	10.22
254756CM	S15AF150080	15.0	800	2.9x1.3x2.2	0.2	13.15	11.94	10.99	10.60
252902CM	S15AF150120	15.0	1000	2.9x1.3x2.2	0.3	14.25	12.94	11.94	11.52
252849CM	S08AH240013	24.0	130	2.5x1.1x1.7	0.2	11.55	10.47	9.67	9.33
252857CM	S08AH240025	24.0	250	2.5x1.1x1.7	0.2	12.05	10.93	10.09	9.74
252865CM	S15AH240050	24.0	500	2.9x1.3x2.2	0.3	13.15	11.94	10.99	10.60
252873CM	S15AH240063	24.0	630	2.9x1.3x2.2	0.3	13.75	12.47	11.94	11.52



## Energy Star/European Compliant Interchangeable-Plug Wall Adapters

Meets US and European Energy Star compliance.

Approved for European high-efficiency power applications.

- Field changeable AC plugs (sold separately, see below)
- Regulated output
- Power-On LED
- Double insulated
- Class B EMI
- Input voltage: 90-264VAC @ 47-63Hz
- Energy Star and ECOC compliant
- Output connector: 2.1mm x 5.5mm female center positive

Wall Adapters (Plug clip required, see below)

- Applications: wireless communications, portable equipment, digital camera, peripherals, networking



Shown with plug clip  
not included



Shown with plug  
clip included

Part No.	Product No.	Power (W)	Output Volt. (VDC)	Current (A)	Ripple (mVp-p)	Line Regulation	Load Regulation	Efficiency (%)	Dimensions (L" x W" x H")	Pricing			
										1	5	25	100
228743CM	PSA05R-050	5	5	1.0	50	±5%	±5%	60	2.8 x 1.8 x 1.2	\$13.05	\$11.85	\$11.35	\$11.07
228770CM	PSA05R-120	5	12	0.42	120	±5%	±5%	60	2.8 x 1.8 x 1.2	13.95	13.25	12.60	12.50
662864CM	PSM11R-050	10	5	2.0	100	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	14.69	13.78	13.25	12.70
662872CM	PMS11R-090	10	9	1.12	100	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	14.29	13.49	13.11	12.70
662881CM	PSM11R-120	10	12	0.84	120	±5%	±5%	65 - 70	2.8 x 1.8 x 1.2	14.29	13.44	13.11	12.70
662899CM	PSA15R-050P	15	5	3.0	50	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89
662910CM	PSA15R-120P	15	12	1.25	120	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89
663728CM	PSA15R-480P	15	48	0.31	480	±5%	±5%	70 - 85	2.8 x 2.0 x 1.3	18.29	17.05	15.92	15.89

AC Plug Clips & Plug Clip Kit (sold separately, required for above adapters)



Part No.	Product No.	Description	1	10	50	100
229155CM	RPA	USA Plug	\$0.53	\$0.52	\$0.515	\$0.51
229163CM	RPE	European Plug	.65	.61	.60	.59
229181CM	RPKIT	Kit w/ RPA/RPE/RPK/RPS (AUST)	2.65	2.39	2.32	2.25



## 2.5 Watt USB Power Adapter with Interchangeable Plug

- USB socket
- Efficiency: 55% (typical)
- Voltage input range: 90-264VAC @ 47-63Hz
- Voltage output: 5VDC @ 0.5A
- Leakage current: 0.20µA max.
- UL/CUL/TUV/CE approved
- ECOC compliant and RoHS compliant
- Size: 2.97"L x 1.81"W x 1.25"H



Part No.	Product No.	1	5	25	100
662805CM	PSC30R-05	\$16.69	\$15.15	\$13.21	\$11.54

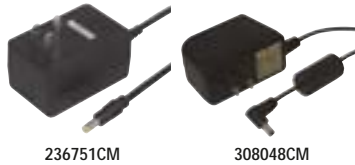


## Commercial Customers

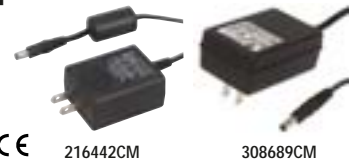
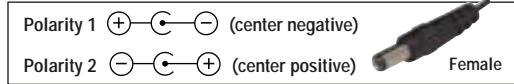
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## 2-Wire AC Input – AC-to-DC Regulated Switching Wall Adapters



**We specialize in Wall Adapters – Call for additional OEM PRICING.**  
**We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.**



Part Number	Brand	Product Number	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Weight (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
230543CM	Phihong	PSA05A-050	5	1000	2.1mm x 5.5mm F 2	90-264@47-63	2.4 x 1.8 x 1.0	Black	4'	0.4	UL/CUL	\$10.95	\$9.86	\$7.88	\$5.91
228881CM	Phihong	PSC10A-050	5	2000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.09	11.88	11.12	10.36
210893CM	ReliaPro	S15AB050200	5	2000	2.5mm x 5.5mm F 2	100-240@47-63	2.9 x 1.4 x 2.2	Black	6'	0.2	UL/CUL	14.25	12.86	11.54	9.63
236751CM	GlobTek	WR92A2600CCP1	5	2600	2.1mm x 5.5mm F 2	100-240@50-60	2.9 x 1.9 x 1.6	Black	6'	0.5	UL/CUL/TUV/CE	13.49	12.15	10.95	9.85
319880CM	Mean Well	ES18U05-P1J	5	3000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
228937CM	Phihong	PSC15A-050	5	3000	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
379621CM	Mean Well	ES25U05-P1J	5	4000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380322CM	Mean Well	ES25U05-P1M	5	4000	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380007CM	Mean Well	ES25U07-P1J	7.5	2930	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380331CM	Mean Well	ES25U07-P1M	7.5	2930	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
228890CM	Phihong	PSC10A-090S	9	1100	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.79	11.99	10.99	10.49
228945CM	Phihong	PSC15A-090	9	1600	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.85	11.59	11.45	11.35
319898CM	Mean Well	ES18U09-P1J	9	2000	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.89
380138CM	Mean Well	ES25U09-P1J	9	2780	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380349CM	Mean Well	ES25U09-P1M	9	2780	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
229753CM	Phihong	PSC10A-120S	12	830	2.1mm x 5.5mm F 2	90-132@ 57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	12.95	11.89	10.99	10.59
228953CM	Phihong	PSC15A-120	12	1250	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
312864CM	Mean Well	ES18U12-P1J	12	1500	2.1mm x 5.5mm F 2	100-240@50-60	3.2 x 2.1 x 1.3	Black	6'	0.2	UL/CUL/CE	12.29	11.35	10.62	9.89
380154CM	Mean Well	ES25U12-P1J	12	2080	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380357CM	Mean Well	ES25U12-P1M	12	2080	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	15.79	15.39	14.94	14.23
319919CM	Mean Well	ES18U15-P1J	15	1200	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25
380171CM	Mean Well	ES25U15-P1J	15	1670	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380365CM	Mean Well	ES25U15-P1M	15	1670	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.25	12.89
380189CM	Mean Well	ES25U18-P1J	18	1390	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380373CM	Mean Well	ES25U18-P1M	18	1390	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
228971CM	Phihong	PSC15A-240	24	620	2.1mm x 5.5mm F 2	90-132@57-63	2.9 x 1.9 x 1.4	Black	6'	0.4	UL/CUL	13.55	12.29	11.35	10.95
319927CM	Mean Well	ES18U24-P1J	24	750	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	12.29	11.35	10.62	9.25
380200CM	Mean Well	ES25U24-P1J	24	1040	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380390CM	Mean Well	ES25U24-P1M	24	1040	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380218CM	Mean Well	ES25U28-P1J	28	890	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380402CM	Mean Well	ES25U28-P1M	28	890	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380234CM	Mean Well	ES25U36-P1J	36	690	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380411CM	Mean Well	ES25U36-P1M	36	690	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
380242CM	Mean Well	ES25U48-P1J	48	520	2.1mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	13.29	12.35	11.73	11.15
380445CM	Mean Well	ES25U48-P1M	48	520	2.5mm x 5.5mm F 2	90-264@47-63	3.1 x 2.1 x 1.3	Black	6'	0.5	UL/CUL/CE	14.25	13.79	13.35	12.89
<b>Other Manufacturers — Great Deals</b>															
225995CM	Delta Electronics	ADP-5DB	5	1000	2.5mm x 5.5mm F 2	100-120@50-60	2.5 x 1.8 x 1.1	Black	6'	0.2	UL	<b>SALE</b> \$10.95	\$9.89	\$8.89	<b>\$7.99</b>
308048CM	Potran	UWP010210500	5	1500	2.1mm x 5.5mm right angle F 2	100-240@60	2.8 x 1.4 x 2.1	Black	10'2"	0.5	UL/CUL	<del>\$11.75</del> 11.05	9.39	7.05	4.95
228726CM	ORB	777-052000S-UF	5	2000	2.1mm x 5.5mm F 2	100@60	3.1 x 2.1 x 1.5	Black	5'	0.5	UL/CUL	12.95	11.49	10.49	9.49
308697CM	Both Hand	MI-10505	5	2000	2.1mm x 5.5mm F 2	120@60	2.2 x 1.9 x 1.0	Black	6'	0.3	UL/CUL	10.65	9.59	7.67	5.75
308689CM	Fairway Elec.	WN10A-050	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.4	UL/CUL/TUV/CE	11.39	10.45	9.98	9.50
189190CM	Interec	EPA101MU-05B	5	2000	2.5mm x 5.5mm F 1	100-240@50-60	3.2 x 2.8 x 1.3	Black	6'	0.4	UL/CUL	12.49	11.24	8.99	7.19
210892CM	—	EPA101MU	5	2000	2.5mm x 5.5mm F 2	100-240@50-60	3.2 x 2.4 x 1.3	Black	6'	0.4	UL/CUL	12.95	11.66	10.49	9.44
248743CM	MEI	EPA-101M-05A	5	2500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.4 x 1.4	Black	6'	0.5	UL/CUL	13.49	12.14	9.71	7.28
684721CM	Hitron	HESIO-06020-0-21	6	2000	2.1mm x 5.5mm right angle F 2	100-240@50-60	3.1 x 2.2 x 1.3	Black	6'	1.2	UL/CUL/CE	12.95	11.75	10.49	8.95
308671CM	Highpower	HPW-1009U	9	1110	2.1mm x 5.5mm F 2	100-240@50-60	3.0 x 2.0 x 1.2	Black	6'	0.3	UL/CUL/TUV/CE	11.89	10.97	10.24	9.50
421649CM	Unifive	US100913	9	1300	2.5mm x 5.5mm F 2	100-120@50-60	2.4 x 1.7 x 1.2	Black	6'	0.2	UL/CUL	11.89	10.70	8.56	6.42
298054CM	DVE	DSA-009-12A	12	750	2.1mm x 5.5mm F 2	90-132@47-63	2.7 x 1.1 x 1.8	Black	6'	0.3	UL/CUL	11.89	10.70	8.56	6.42
235096CM	DVE	DSA-0151A-12S	12	1250	2.1mm x 5.5mm F 2	100-120@50-60	3.2 x 2.1 x 1.4	Black	6'	0.3	UL/CUL	13.49	12.14	9.71	7.28
320311CM	Gilat	E040105E	24	1670	2.1mm x 5.5mm F 2	100-240@50-60	3.9 x 2.4 x 1.6	Black	6'	0.7	UL/CUL	14.95	13.46	11.68	10.25

† 3-wire AC input




▲ Brand and product number may vary except for ReliaPro, Mean Well, Phihong and GlobTek

ⓘ Blue Part No. = Limited Quantity Available

AC-to-DC Wall Adapters continued on pages 238, 240 - 242

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**New** **Sale** **Lower\$** **QtySave**

Order 24/7 Toll Free 1-800-831-4242

239



# AC-to-DC Regulated Linear Wall Adapters

Color Code Legend  
New Sale Lower\$ QtySave



## 2-Wire AC Input – AC-to-DC Regulated Linear Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• One-year warranty

Polarity 1 (center negative) Polarity 2 (center positive)



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Input VAC @ Hz	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)								1	10	50	100
164101CM	ReliaPro	RDU050050	5	500	2.1mm x 5.5mm F 2	120@60	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	\$10.95	\$9.86	\$8.87	\$7.98
220935CM	ReliaPro	DDU050060	5	600	2.1mm x 5.5mm F 1	120@60	2.7 x 2.2 x 1.9	Black	6'	0.8	UL/CUL	12.29	11.06	8.85	6.64
196411CM	ReliaPro	DDU050100	5	1000	2.1mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Ivory	6'	1.0	UL/CUL	12.05	10.84	9.76	8.78
168605CM	ReliaPro	DBU050100	5	1000	2.5mm x 5.5mm F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	12.55	11.54	10.62	9.12
190512CM	ReliaPro	DBU60020-H3570	6	200	2.1mm x 5.5mm F 2	120@60	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	7.65	6.89	5.98	4.47
220898CM	ReliaPro	DCU120020	12	200	2.1mm x 5.5mm F 1	120@60	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	8.65	7.29	6.85	6.45
162996CM	ReliaPro	DDU120050	12	500	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	10.95	9.86	8.87	7.98
170245CM	ReliaPro	RDU120100	12	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.3 x 2.0	Black	6'	1.2	UL/CUL	15.35	13.82	12.43	10.36
174861CM	ReliaPro	DFU240050	24	500	2.1mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	13.15	11.87	10.65	9.62
174879CM	ReliaPro	RFU240050	24	500	2.5mm x 5.5mm F 2	120@60	3.4 x 2.7 x 2.2	Black	6'	1.3	UL/CUL	13.15	11.87	10.65	9.62

### Other Manufacturers — Great Deals

**SALE**

**Quantity SAVE**

319847CM	—	DV-530R	5	300	2.5mm x 5.5mm F 2	120@60	2.4 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	\$7.15	\$6.45	\$5.79	\$4.81
289182CM	AESP	AD-5600RDU	5	600	2.1mm x 5.5mm F 2	120@60	3.1 x 2.8 x 1.9	Black	6'	0.9	UL/CUL	10.49	9.45	7.55	5.65
319986CM	—	DV-580R	5	800	2.5mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.0	UL/CUL	9.95	8.95	7.16	5.37
425519CM	Condor	DV-51AR	5	1000	2.1mm x 5.5mm F 2	120@60	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CUL	10.69	9.62	7.70	5.77
297941CM	—	JOD-480-08	5	1000	2.5mm x 5.5mm F 2	120@60	3.1 x 2.3 x 1.9	Black	6'	0.9	UL	10.99	9.89	7.91	5.94
681571CM	ITE	RWP480505-2	5	1000	2.5mm x 5.5mm right angle F 2	120@60	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CUL	10.95	8.95	6.95	5.21
154624CM	Motorola	512-305-4C3E	+5±12	500/130	8-pin DIN M	120@60	2.9 x 2.6 x 1.9	Black	6'	1.2	UL/CSA	12.95	11.66	10.09	9.29
283573CM	—	DC600500	6	500	2.1mm x 5.5mm F 2	120@60	3.1 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	7.85	7.05	6.21	5.49
190529CM	NOMA	AD9123	9	250	2.5mm x 5.5mm right angle F 2	120@60	2.5 x 2.0 x 1.6	Black	12'	0.5	UL/CSA	7.15	6.44	5.79	5.21
425527CM	Condor	48-9-700R	9	700	2.1mm x 5.5mm F 1	120@60	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	11.89	10.97	10.42	9.50

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

♻ Blue Part No. = Limited Quantity Available

## 2-Wire AC Input – AC-to-DC Unregulated Wall Adapters

We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



• Input: 120VAC @ 60Hz

• One-year warranty

Polarity 1 (center negative) Polarity 2 (center positive)



280250CM



Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
112070CM	ReliaPro	DBU050022	5	225	2.5mm x 5.5mm F 2	1.9 x 2.2 x 2.0	Black	7'	0.3	UL/CSA	\$8.05	\$7.25	\$6.52	\$5.87
155601CM	ReliaPro	DCU050100	5	1000	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Black	6'	0.7	UL/CSA	5.19	4.67	4.20	3.50
119255CM	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 1	2.3 x 1.8 x 1.8	Black	6'	0.6	UL/CUL	4.75	4.28	3.85	3.46
101266CM	ReliaPro	DBU060050	6	500	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.59	4.28	3.42	2.57
15544CM	ReliaPro	DBU060050	6	500	3.5mm M 2	2.4 x 1.9 x 1.6	Black	6'	0.4	UL/CSA	4.75	4.25	3.82	3.44
147707CM	ReliaPro	DBU060080	6	800	2.1mm x 5.5mm F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.45	4.94	4.46	4.02
220943CM	ReliaPro	DCU060120	6	1200	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.7	UL/CUL	7.15	6.44	5.79	5.21
220951CM	ReliaPro	DCU075100	7.5	1000	2.1mm x 5.5mm F 1	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.75	4.35	3.92	3.57
280250CM	ReliaPro	DDU075110	7.5	1100	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	5.49	4.73	4.61
127511CM	ReliaPro	DDU080100	8	1000	2.1mm x 5.5mm F 2	3.1 x 2.5 x 2.1	Black	6'	1.3	UL	8.75	7.88	7.09	6.38

### Other Manufacturers — Great Deals

**SALE**

**Quantity SAVE**

237227CM	Freeplay	DX351307	4.5	100	1.3mm x 3.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	\$1.95	\$1.29	\$1.15	\$1.04	\$0.94
320303CM	Globtek	WRIA1000CCP-N	5	1000	2.1mm x 5.5mm F 2	3.2 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	\$10.95	9.49	8.55	6.85	5.15
219651CM	—	FE4823-050E120	5	1200	2.5mm x 5.5mm F 2	3.5 x 2.4 x 1.9	Black	6'	1.2	UL/CUL	5.15	4.47	3.71	2.78	
237251CM	Freeplay	DPX350817	6	100	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	3.95	3.55	2.89	2.53	
243117CM	Regal	WH060200-10N	6	200	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.16	2.53	1.90	
302439CM	—	AD-0630M	6	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.99	3.59	2.87	2.15	
682363CM	Epson	HOOAA	6	600	2.1mm x 5.5mm F 1	2.4 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.49	3.95	3.49	2.49	
227951CM	—	JOD-48U-33	6	2100	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.3	UL/CUL	7.79	7.15	6.45	5.79	
248751CM	Uniq	AD-071A	7.5	1000	2.5mm x 5.5mm F 2	2.3 x 2.3 x 1.9	Black	6'	0.9	UL/CSA	6.49	5.85	4.69	3.50	
249279CM	AESP	FO-AC-4305	7.5	1000	2.1mm x 5.5mm right angle F 2	3.2 x 2.0 x 1.7	Black	6'	0.8	UL/CUL	6.95	6.25	5.65	5.09	

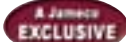
▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

♻ Blue Part No. = Limited Quantity Available

More AC-to-DC Wall Adapters listed on pages 238, 239, 241 & 242



We specialize in Wall Adapters – Call for additional OEM PRICING.  
 We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



• Input: 120VAC @ 60Hz • One-year warranty



227774CM

213559CM

**Quantity SAVE**


**SALE**


Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Current (mA)							1	10	50	100
100845CM	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	\$4.49	\$3.97	\$3.48	\$3.14
134025CM	ReliaPro	DBU090020	9	200	2.1mm x 5.5mm F 1	2.1 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.45	4.90	3.92	2.94
100837CM	ReliaPro	DBU090020	9	200	3.5mm M 2	2.6 x 1.8 x 1.6	Black	6'	0.4	UL/CSA	4.35	3.95	3.58	3.25
133891CM	ReliaPro	DBU090030	9	300	2.1mm x 5.5mm F 2	2.0 x 1.5 x 1.5	Black	6'	0.4	UL/CSA	4.35	3.49	3.05	2.59
189238CM	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.79	4.31	3.45	2.59
318676CM	ReliaPro	DBU090030	9	300	2.5mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.29	3.83	3.37	3.20
202155CM	ReliaPro	DBU090035	9	350	2.1mm x 5.5mm F 2	2.1 x 1.7 x 1.5	Black	6'	0.3	UL/CUL	3.65	3.26	2.93	2.64
140636CM	ReliaPro	DCU090040	9	400	2.5mm x 5.5mm F 2	2.6 x 2.0 x 2.0	Black	6'	0.6	UL/CSA	4.59	4.17	3.73	3.36
202171CM	ReliaPro	DCU090045	9	450	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.5	UL/CUL	4.35	3.91	3.13	2.35
163627CM	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.49	4.95	4.45	3.95
100853CM	ReliaPro	DCU090050	9	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	5.45	4.90	4.41	3.97
147731CM	ReliaPro	AD-11950	9	500	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.7	Beige	6'	0.6	UL/CSA	4.55	4.09	3.69	3.39
236937CM	ReliaPro	DCU090050A	9	500	2.5mm x 5.5mm right angle F 2	2.5 x 2.0 x 1.7	Black	6'	0.4	UL/CSA	6.35	5.72	5.14	4.63
15561CM	ReliaPro	DCU090050	9	500	3.5mm M 2	2.5 x 2.0 x 1.6	Black	6'	0.5	UL/CSA	5.35	4.81	4.33	3.90
202180CM	ReliaPro	DCU090060	9	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.39	4.83	4.35	3.68
100175CM	ReliaPro	DCU090060	9	600	2.5mm x 5.5mm F 2	2.7 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	6.05	5.22	4.68	4.35
202198CM	ReliaPro	DCU090080	9	800	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	7.65	6.89	6.20	5.58
364576CM	ReliaPro	DDU090100J0490	9	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	8.75	7.87	6.98	6.06
127504CM	ReliaPro	DC910F5-VP	9	1000	2.5mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.25	7.42	6.68	5.55
15587CM	ReliaPro	DDU090100	9	1000	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	8.75	7.88	6.30	4.73
130526CM	ReliaPro	DDE090120	9	1200	2.1mm x 5.5mm F 1	2.4 x 2.0 x 1.8	Black	6'	1.0	UL/CSA	9.85	8.86	7.08	5.31
143693CM	ReliaPro	DFU0901500A3040	9	1500	2.1mm x 5.5mm F 2	3.3 x 2.5 x 2.3	Black	6'	1.3	UL/CSA	10.95	9.86	7.65	5.70
163993CM	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 1	2.4 x 1.7 x 1.6	Black	6'	0.4	UL/CSA	5.25	4.73	4.25	3.83
100095CM	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm F 2	2.1 x 1.8 x 1.5	Black	6'	0.4	UL/CSA	4.35	3.92	3.12	2.34
158043CM	ReliaPro	DBU120020	12	200	2.1mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.95	4.46	4.01	3.61
220433CM	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Lt. Gray	6'	0.4	UL/CSA	4.95	4.46	4.01	3.61
185658CM	ReliaPro	DBU120020	12	200	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	5.29	4.76	4.28	3.56
219601CM	ReliaPro	DCU120025	12	250	Stripped & tinned	2.5 x 2.0 x 1.7	Dk. Gray	6'	0.4	UL/CUL	4.35	3.91	3.12	2.34
318692CM	ReliaPro	DBU120030	12	300	1.3mm x 3.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	4.59	3.73	3.29	2.52
127976CM	ReliaPro	DCU120030	12	300	2.1mm x 5.5mm F 2	2.6 x 1.8 x 1.6	Black	6'	0.7	UL/CSA	5.25	4.59	3.85	3.25
249236CM	ReliaPro	DBU120030	12	300	2.5mm x 5.5mm right angle F 2	2.2 x 1.7 x 1.5	Black	6'	0.5	UL/CUL	5.35	4.23	3.73	3.40
190502CM	ReliaPro	ADA-410	12	400	2.1mm x 5.5mm right angle F 2	2.6 x 2.1 x 1.9	Black	6'	0.5	UL/CUL	7.35	6.62	5.30	4.00
114825CM	ReliaPro	DCU120050	12	500	Connector end may vary	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	5.25	4.78	3.80	2.85
15368CM	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 1	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	7.15	6.44	5.79	5.21
102496CM	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm F 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.79	4.58	4.00	3.81
131300CM	ReliaPro	DCU120050	12	500	2.1mm x 5.5mm right angle F 2	2.6 x 1.9 x 1.7	Beige	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
102277CM	ReliaPro	DCU120050U	12	500	2.5mm x 5.5mm F 2	2.5 x 2.1 x 1.7	Black	6'	0.6	UL/CSA	5.69	5.12	4.61	4.15
172670CM	ReliaPro	DCU120050	12	500	3.5mm M 2	2.5 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	5.69	5.12	4.61	4.15
202201CM	ReliaPro	DCU120060	12	600	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.45	4.90	4.32	3.99
202219CM	ReliaPro	DCU120070	12	700	2.1mm x 5.5mm F 2	3.3 x 2.9 x 2.3	Black	6'	0.6	UL/CUL	5.69	5.14	4.11	3.08

## Other Manufacturers — Great Deals

308056CM	—	A40910M	8.7	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	\$6.75	\$6.09	\$5.49	\$4.55
622563CM	Stancor	STA-3590B	9	100	2.1mm x 5.5mm F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55	3.19	2.89
355936CM	—	35-9-200C	9	200	1.3mm x 3.5mm F 2	2.5 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.79	3.41	2.72	2.05
237243CM	Freeplay	DPX351322	9	200	2.1mm x 5.5mm F 2	2.4 x 1.7 x 1.4	Black	6'	0.4	UL/CSA	2.35	2.15	1.92	1.74
400899CM	WABI	LF09250D-08	9	250	2.5mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	4.09	3.27	2.86	2.15
657029CM	Motorola	SPN4622A	9	300	1.35mm x 3.5mm right angle F 2	2.3 x 1.8 x 1.5	Black	6'	0.4	UL	4.29	3.86	3.09	2.32
169519CM	Panasonic	KX-TCA1	9	350	2.1mm x 5.5mm right angle F 1	2.7 x 1.7 x 1.6	Dk. Gray	6'	0.4	UL/CSA	3.85	3.47	3.12	2.81
319177CM	Explore Tech.	41-9-5000	9	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.15	3.74	2.99	2.24
170270CM	Panasonic	POLV1	9	500	2.1mm x 5.5mm right angle F 1	2.7 x 1.9 x 1.8	Gray	6'	0.6	UL/CSA	4.95	4.46	3.56	2.67
652341CM	Cidco	SPA-4180-65	9	600	2.5mm x 5.5mm right angle F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.29	4.75	3.81	2.85
421577CM	Powerline	O900-12	9	850	2.5mm x 5.5mm F 2	2.7 x 2.1 x 1.7	Black	6'	0.8	UL/CSA	7.35	6.62	5.29	3.97
164929CM	—	DDU090100	9	900	2.1mm x 5.5mm F 1	2.7 x 2.3 x 1.8	Black	6'	0.9	UL/CUL	8.75	7.86	6.33	4.72
227774CM	GTE	ADP2108GT	9	1000	2.1mm x 5.5mm right angle F 2	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CUL	7.95	7.15	5.75	4.29
421690CM	Fisher-Price	SA48-29A	9	1000	2.1mm x 5.5mm F 2	3.1 x 2.2 x 1.8	Black	6'	1.1	UL/CSA	7.15	5.68	4.97	3.73
285958CM	API	AP2072P	9	1000	2.5mm x 5.5mm right angle F 2	2.5 x 2.3 x 1.9	Black	6'	0.9	UL/CUL	6.95	6.26	4.99	3.75
237067CM	APS	D9-15-950	9	1500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.3	UL/CUL	9.95	8.96	7.16	5.37
457799CM	Conдор	DSA-0151F-09	9	200	2.1mm x 5.5mm F 1	3.2 x 2.1 x 1.7	Black	6'	0.5	UL/CUL	12.75	11.83	11.24	10.68
684836CM	Southwest Bell	KEC-41-100-5	10	500	2.1mm x 5.5mm F 2	2.4 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	4.49	3.95	3.49	2.65
661079CM	—	DP300-04	12	200	2.1mm x 5.5mm right angle F 1	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.59	2.89	2.10
211238CM	Quotrek	35D-12-250	12	250	2.5mm right angle M 2	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CSA	3.95	3.55	2.89	2.15
201099CM	—	SPN4230A	12	300	1.3mm x 3.5mm right angle F 2	2.3 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	4.99	4.49	4.05	3.35

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Phihong and Globtek ♻️ Blue Part No. = Limited Quantity Available **More AC-to-DC Wall Adapters listed on pages 238 - 240 & 242**

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

Color Code Legend  
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# AC-to-DC Unregulated Wall Adapters (Continued)

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We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.

• Input: 120VAC @ 60Hz • One-year warranty



Quantity SAVE

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD/Polarity F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VDC)	Curr. (mA)							1	10	50	100
121232CM	ReliaPro	DDU120080	12	800	3.5mm M 2	2.6 x 2.4 x 2.0	Black	6'	0.9	UL/CSA	\$6.79	\$6.13	\$4.91	\$3.67
117479CM	ReliaPro	DDU120080	12	800	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.65	6.89	6.20	5.58
129331CM	ReliaPro	DDU120080	12	800	2.5mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	6.15	5.54	4.98	4.48
100870CM	ReliaPro	DDU120100	12	1000	2.1mm x 5.5mm F 2	2.6 x 2.4 x 1.9	Black	6'	0.9	UL/CSA	8.99	8.09	7.28	6.55
105478CM	ReliaPro	DDU120100	12	1000	2.5mm x 5.5mm F 2	3.1 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.25	7.42	6.30	4.73
15392CM	ReliaPro	DDU120100	12	1000	3.5mm M 2	3.3 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	8.75	7.88	7.09	6.38
213559CM	ReliaPro	GPC-081	12	1000	Auto lighter power outlet	4.3 x 2.2 x 1.9	Black	—	1.1	UL/CUL	13.95	12.56	10.04	7.53
196779CM	ReliaPro	DDU120120	12	1200	2.5mm x 5.5mm F 2	3.0 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.69	8.70	7.81	6.92
203036CM	ReliaPro	DDU120150	12	1500	2.1mm x 5.5mm F 1	3.3 x 2.2 x 1.9	Black	6'	1.5	UL/CUL	14.25	12.82	10.29	7.69
313226CM	ReliaPro	DFU120150	12	1500	Stripped & tinned (w/ on-off switch)	3.4 x 2.6 x 2.2	Black	8'	1.5	UL	11.45	10.40	9.33	8.30
136881CM	ReliaPro	DFU120150	12	1500	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	14.25	12.82	11.54	10.39
101291CM	ReliaPro	D571201500U	12	1500	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.5	UL	11.45	10.30	9.27	8.35
249738CM	ReliaPro	MW57-1202000	12	2000	Stripped & tinted	3.3 x 2.7 x 2.2	Black	10'	2.0	UL/CUL	9.95	8.95	8.05	7.25
308099CM	ReliaPro	DDU135100	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.95	8.09	7.16	6.22
212812CM	ReliaPro	DBU140020	14	200	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	3.35	3.07	2.80	2.52
212821CM	ReliaPro	DBU140030	14	300	2.1mm x 5.5mm F 2	2.2 x 1.7 x 1.5	Black	6'	0.8	UL/CUL	4.95	4.45	3.55	2.66
123932CM	ReliaPro	DDU140070	14	700	2.1mm x 5.5mm F 2	2.6 x 2.4 x 2.0	Black	6'	1.0	UL/CSA	9.35	8.41	6.73	5.05
202243CM	ReliaPro	DDU140070	14	700	2.5mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.8	UL/CUL	8.95	8.06	6.44	4.83
202260CM	ReliaPro	DDU140100	14	1000	2.1mm x 5.5mm F 2	3.9 x 2.9 x 2.4	Black	6'	0.9	UL/CUL	8.75	7.65	6.88	6.15
190001CM	ReliaPro	DCU150050	15	500	2.1mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.65	6.92	5.55	4.17
189982CM	ReliaPro	DCU150050	15	500	2.5mm x 5.5mm F 2	2.3 x 2.4 x 1.9	Black	6'	0.8	UL/CSA	7.65	6.92	5.55	4.17
155803CM	ReliaPro	DDU150060	15	600	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CSA	9.85	8.86	7.09	5.31
232258CM	ReliaPro	DDU150080	15	800	2.1mm x 5.5mm F 1	2.9 x 2.3 x 1.9	Black	6'	1.0	UL	4.75	4.34	3.94	3.58
203502CM	ReliaPro	DDU150090	15	900	2.5mm x 5.5mm F 2	2.6 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	7.65	6.89	5.51	4.13
151992CM	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 1	3.1 x 2.0 x 1.9	Beige	6'	1.5	UL/CSA	9.35	8.41	6.72	5.04
191652CM	ReliaPro	DDU150100	15	1000	2.1mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	10.55	9.50	8.55	7.69
162317CM	ReliaPro	DDU165050	16	500	2.1mm x 5.5mm F 2	2.5 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	8.75	7.65	6.86	6.15
181729CM	ReliaPro	DCU180025	18	250	2.1mm x 5.5mm F 2	2.6 x 2.0 x 1.6	Black	6'	0.6	UL	7.65	6.89	5.50	4.12
163272CM	ReliaPro	DDU180050-2	18	500	2.1mm x 5.5mm F 2	2.6 x 2.3 x 1.9	Black	6'	0.8	UL/CUL	10.95	9.86	8.38	6.28
206958CM	ReliaPro	DDU180100	18	1000	2.5mm x 5.5mm F 2	3.3 x 2.2 x 1.9	Black	6'	1.4	UL/CUL	10.95	9.86	7.91	5.93
102285CM	ReliaPro	DDU240040	24	400	2.1mm x 5.5mm F 2	3.0 x 2.3 x 2.0	Black	6'	0.9	UL/CUL	8.75	7.91	7.09	6.43
163635CM	ReliaPro	DDU240050	24	500	2.1mm x 5.5mm F 1	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.85	8.86	7.08	5.31
191556CM	ReliaPro	DDU240050	24	500	2.5mm x 5.5mm F 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	9.85	8.89	7.98	6.66
190988CM	ReliaPro	DDU240050	24	500	3.5mm M 2	3.1 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	8.75	7.19	6.45	5.35
168495CM	ReliaPro	DFU240080	24	800	2.1mm x 5.5mm F 2	2.9 x 1.9 x 1.6	Black	6'	0.4	UL/CUL/TUV	12.05	10.84	9.76	8.78
220960CM	ReliaPro	DFU240100	24	1000	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.6	UL/CUL	15.29	14.25	12.53	11.98
249130CM	ReliaPro	AFU240120/G8530	24	1200	2.1mm x 5.5mm F 1	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249121CM	ReliaPro	DFU240120/G8520	24	1200	2.1mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
249113CM	ReliaPro	DFU240120/G8510	24	1200	2.5mm x 5.5mm F 2	3.4 x 2.7 x 2.2	Black	6'	1.7	UL/CUL	17.55	16.34	14.40	13.74
199523CM	ReliaPro	DDU300050	30	500	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	10.95	9.86	8.87	7.98
215095CM	ReliaPro	MW48-4800250	48	250	2.5mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	8.35	7.49	6.79	6.05
230631CM	ReliaPro	MW48-4800250-2.1	48	250	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.1	UL/CUL	4.89	4.39	3.99	3.67
15309CM	ReliaPro	900-051	3, 4.5, 6, 7.5, 9, 12	500	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.0 x 2.2 x 2.1	Black	6'	0.7	UL/CSA	9.49	8.54	7.69	6.92
123158CM	ReliaPro	900-100	1.5, 3, 4.5, 6, 7.5, 9, 12	1000	1.3 x 3.5, 2.1 x 5.0, 2.5 x 5.5 Female	3.7 x 2.2 x 2.5	Black	6'	0.9	None	10.95	9.86	8.87	7.98
Other Manufacturers — Great Deals														
355590CM	Southwestern Bell	PS-400	12	400	2.1mm x 5.5mm F 2	2.4 x 1.9 x 1.6	Black	6'	0.6	UL/CSA	\$4.99	\$4.49	\$3.99	\$3.59
305103CM	—	AD1250-5LE	12	500	2.1mm x 5.5mm F 2	2.6 x 1.9 x 1.7	Black	6'	0.6	UL/CSA	4.39	3.99	3.15	2.36
211051CM	Calrad	DV-1280 Dual	12	800	2.5mm x 5.5mm rt angle F 2 w/ input switch	2.6 x 2.4 x 1.9	Black	6'	0.9	None	2.35	2.19	1.99	1.79
240101CM	Broadxent	AD-121AN	12	1000	2.1mm x 5.5mm F 2	2.8 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	6.99	6.29	5.66	5.09
199566CM	Superworld	WK1201A01DN	12	1000	2.5mm x 5.5mm F 2 (w/ RF filter)	3.2 x 2.2 x 2.0	Black	6'	1.2	UL/CSA	6.95	6.26	5.63	5.07
189579CM	Fellowes	BCU12100	12	1000	2.5mm x 5.5mm right angle F 2	3.2 x 2.2 x 1.9	Black	6'	1.0	UL/CSA	8.75	7.91	6.32	4.79
371987CM	New Star	NS-889	13	1200	2.1mm x 5.5mm F 2	3.6 x 2.4 x 1.9	Black	6'	1.2	UL	6.59	5.30	4.65	4.41
192786CM	—	MK135100	13.5	1000	2.1mm x 5.5mm F 1	2.9 x 2.3 x 2.0	Black	6'	1.0	UL/CSA	2.95	2.65	2.41	2.19
447081CM	Technics	TEAD-48-131000U	13.5	1000	2.1mm x 5.5mm F 2	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	7.99	7.08	5.75	4.31
129314CM	—	DV-1250	14	360	2.5mm x 5.5mm right angle F 2	2.3 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	5.19	4.67	3.74	2.80
681563CM	Ault	P48151000A020G	15	1000	2.5mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.2	UL/CSA	8.95	7.95	6.95	5.90
217541CM	NiteRider	FE4116168C030	16.8	300	2.5mm x 5.5mm F 2 w/ LED indicator	3.1 x 2.1 x 1.6	Black	6'	0.6	UL/CUL	4.45	4.00	3.20	2.40
217568CM	NiteRider	FE4126180P040	18	400	2.5mm x 5.5mm F 2 w/ LED indicator	3.5 x 2.1 x 1.6	Black	6'	0.8	UL/CUL	5.99	5.39	4.31	3.23
206957CM	GlobTek	WD1H1000LCX	18	1000	2.5mm x 5.5mm F 2	3.4 x 2.6 x 2.1	Black	6'	1.4	None	9.95	8.96	7.16	5.37
404339CM	Ault	P48240500A020G	24	500	2.1mm x 5.5mm F 2	2.5 x 2.3 x 2.0	Black	6'	0.9	UL/CSA	7.45	5.99	5.24	4.97
196322CM	3Com	P48240600A020G	24	600	2.1mm x 5.5mm F 2	3.3 x 2.3 x 1.9	Black	6'	1.1	UL/CSA	8.95	8.06	7.15	5.85
215108CM	—	MW57-4800500	48	500	2.5mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	9.68	8.71
230640CM	—	MW57-4800500-2.1	48	500	2.1mm x 5.5mm F 2	3.3 x 2.7 x 2.2	Black	6'	1.1	—	11.95	10.76	8.60	6.45

† 120 to 220VAC ▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Philhong and Globtek ⚡ Blue Part No. = Limited Quantity Available More AC-to-DC Wall Adapters listed on pages 239 - 241

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



# 2-Wire AC Input – AC-to-AC Wall Adapters



We specialize in Wall Adapters – Call for additional OEM PRICING.

We will change any power plug (pg 163) on any DC wall adapter listed (100 pc. minimum) for a small additional charge.



**Quantity SAVE**



236814CM



233293CM



• Input: 120VAC @ 60Hz

• One-year warranty



308718CM



206421CM

Part Number	Brand ▲	Cross Ref. Number ▲	Output Rating		Output Connector ID x OD Plug Type F = female; M = male	Size H" x W" x D"	Case Color	Output Cord Length	Wt. (lbs.)	Agency Approvals	Pricing			
			Voltage (VAC)	Current (mA)							1	10	50	100
249017CM	ReliaPro	ACU070150	7	1500	2.5mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CSA	\$5.69	\$5.15	\$4.10	\$3.09
100061CM	ReliaPro	ACU090050	9	500	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	Black	6'	0.6	UL/CUL	5.05	4.53	3.63	2.73
236814CM	ReliaPro	ACU090080	9	800	3.5mm M	2.5 x 2.0 x 1.7	Black	6'	0.5	UL/CUL	5.45	4.90	4.41	3.97
102234CM	ReliaPro	ACU090100	9	1000	2.1mm x 5.5mm F	3.2 x 2.2 x 1.9	Black	6'	0.6	UL/CSA	6.05	5.44	4.90	4.41
157041CM	ReliaPro	ACU090100	9	1000	2.5mm x 5.5mm F	2.1 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	7.65	6.89	6.20	5.58
112336CM	ReliaPro	ACU090150	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL	10.95	9.86	8.87	7.98
101258CM	ReliaPro	ACU120050	12	500	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	5.05	4.54	3.71	3.28
10081CM	ReliaPro	ACU120100	12	1000	2.1mm x 5.5mm F	2.6 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.69	5.14	4.62	4.16
100167CM	ReliaPro	A411201000U	12	1000	2.5mm x 5.5mm F	3.2 x 2.4 x 2.0	Black	6'	0.7	UL/CSA	5.69	5.12	4.61	4.15
10428CM	ReliaPro	ACU120100	12	1000	3.5mm M	2.6 x 2.4 x 2.0	Black	6'	0.6	UL/CUL	5.69	5.15	4.65	4.19
167151CM	ReliaPro	ADU120150	12	1500	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	6'	1.5	UL/CUL	5.45	4.94	4.39	3.69
307838CM	ReliaPro	ADU120160	12	1600	2.5mm x 5.5mm F	2.9 x 2.3 x 1.9	Black	6'	1.0	UL/CUL	13.95	11.19	9.79	9.30
153761CM	ReliaPro	ADU120160	12	1600	3.5mm M	2.5 x 2.2 x 1.9	Black	6'	0.9	UL	12.05	10.84	9.76	8.78
171408CM	ReliaPro	ACU140050	14	500	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.44	3.55	2.66
318684CM	ReliaPro	ACU140085	14	850	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	11.95	9.00	8.03	6.85
100108CM	ReliaPro	ADU160100	16	1000	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	8.75	7.88	6.30	4.73
163053CM	ReliaPro	ADU160110	16	1100	2.5mm x 5.5mm F	3.2 x 2.3 x 1.8	Black	6'	1.1	UL/CSA	9.85	8.79	7.08	5.31
121216CM	ReliaPro	ADU180100	18	1000	2.1mm x 5.5mm F	3.1 x 2.7 x 1.9	Black	6'	1.1	UL/CUL	9.85	8.86	7.98	6.77
87581CM	ReliaPro	ADU240050	24	500	2.1mm x 5.5mm F	2.5 x 2.2 x 1.9	Black	6'	0.9	UL/CSA	5.69	5.12	4.61	4.15
140599CM	ReliaPro	ADU240100	24	1000	2.1mm x 5.5mm F	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	9.85	8.90	7.14	5.38
10102CM	ReliaPro	ADU240100	24	1000	3.5mm M	3.0 x 2.2 x 1.9	Black	6'	1.2	UL/CSA	8.75	7.89	7.09	5.95
176356CM	ReliaPro	AFU240125	24	1250	2.1mm x 5.5mm F	3.4 x 2.7 x 2.2	Black	5'8"	1.6	None	11.55	10.40	9.36	8.42

## Other Manufacturers — Great Deals

**Quantity SAVE**

**SALE**

101127CM	Siemens	DFX10096B	7	1500	2.5mm x 5.5mm F	1.9 x 2.2 x 2.0	Black	7'6"	0.8	UL/CSA	\$5.45	\$4.90	\$3.92	\$2.94
210729CM	ITE Power Supply	MKA35090300	9	300	2.1mm x 5.5mm F	2.2 x 1.7 x 1.5	Black	6'	0.4	UL/CUL	3.95	3.55	2.84	2.13
184751CM	PhoneMate	M/N40	9	450	2.1mm x 5.5mm right angle F	2.8 x 2.0 x 1.7	Black	6'	0.8	UL/CSA	4.19	3.77	3.39	3.05
226131CM	US Robotics	AA0950	9	500	2.5mm x 5.5mm F	2.5 x 2.1 x 1.7	Black	6'	0.5	UL/CSA	4.49	3.99	3.65	3.29
249295CM	Pacrim	41A-9-700	9	700	2.5mm x 5.5mm F	2.3 x 2.0 x 1.7	Black	6'	0.6	UL/CSA	3.99	3.59	3.25	2.95
233293CM	Horizon	ACU090080	9	800	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL	5.15	4.64	3.71	2.78
355531CM	—	MW41-0901000A	9	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	Black	6'	0.6	UL/CUL	4.45	4.00	3.20	2.40
320258CM	US Robotics	T48091500A010G	9	1500	2.5mm x 5.5mm F	2.5 x 2.2 x 2.0	Black	6'	0.9	UL/CSA	8.95	8.05	6.44	4.83
217550CM	Frino	FW6798	9	1900	Stripped and tinned	2.8 x 2.5 x 2.0	Black	6'8"	1.1	UL/CSA	5.95	5.36	4.28	3.21
211271CM	Orig. Elec. Mfg.	AA-1250	12	500	2.5mm x 5.5mm F	2.3 x 2.1 x 1.6	Black	6'	0.6	UL/CSA	4.59	4.15	3.65	3.29
285069CM	Shogyo	DV-1283	12	830	2.5mm x 5.5mm F	2.8 x 2.0 x 1.6	Black	6'	0.6	UL/CSA	4.95	4.55	4.13	3.70
309884CM	—	AA-121A	12	1000	2.1mm x 5.5mm F	2.5 x 2.0 x 1.7	Black	6'	—	UL/CUL	4.89	4.40	3.52	2.64
206404CM	MG Electronics	MGT1220	12	1670	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	6.95	6.29	5.65	5.09
210737CM	ITE Power Supply	PPI-1212UL	13	1200	2.1mm x 5.5mm F	3.3 x 2.4 x 2.0	Black	6'	0.9	UL/CUL	4.95	4.49	3.59	2.69
421585CM	JBL Inc	A12-1A-01	14	850	2.5mm x 5.5mm F	2.5 x 1.9 x 1.6	White	6'	0.6	UL/CSA	5.55	4.85	4.32	4.03
185439CM	Ault	T5182200-A020G	18	1850	2.1mm x 5.5mm right angle F	3.3 x 2.7 x 2.2	Black	6'	1.7	None	8.25	7.42	5.94	4.46
308718CM	Comtrend	ACU-190051	19	510	2.5mm x 5.5mm right angle F	2.5 x 2.0 x 1.7	Black	6'	0.6	UL/CUL	3.29	2.99	2.75	2.45
206421CM	MG Electronics	MGT2410	24	420	Screw terminals	2.5 x 2.0 x 1.7	White	—	0.6	UL/CSA	6.49	5.84	5.26	4.73
206439CM	MG Electronics	MGT2420	24	830	Screw terminals	3.2 x 2.2 x 1.9	White	—	0.9	UL/CSA	7.19	6.49	5.85	5.25
305091CM	Ault	3264024000A1	24	1600	3.5mm M	2.9 x 2.7 x 2.2	Black	6'	1.5	UL	9.95	8.54	8.06	7.25

▲ Brand and cross reference number may vary except for ReliaPro, Mean Well, Pihong and Globtek

● Blue Part No. = Limited Quantity Available

## TRIAD Triad AC/DC Wall Adapters

- AC/DC unregulated
- Input rating: 120VAC @ 60Hz
- Output rating: 6-18VDC • 6' cord lengths



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete AC/DC Wall Adapter Offering at  
[www.jameco.com/Prod/TriadWall](http://www.jameco.com/Prod/TriadWall)

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JAMECO  
ReliaPro

## AC-to-AC Table-Top Step-Down Adapter

- Input voltage: 120VAC @ 60Hz
- Output current: 4.0A
- Output plug: 2.1mm (ID) x 5.5mm (OD) female
- Attached AC cord
- Agency approvals: CSA
- Size: 3.7"L x 2.9"W x 2.5"H
- Output volts: 16VAC
- Output watts: 64W
- Cord (AC/AC): 6'/6'
- Color: black
- Weight: 2.8 lbs.

A Jameco  
EXCLUSIVE

Part No.	Manufacturer	Product Number	1	10	50
176604CM	Jameco	TA661640	\$14.25	\$12.82	\$11.54

JAMECO  
ReliaPro

## Wall Adapter Enclosures

- Enclosures include 3-prong power plug and cable strain relief
- Size: 3.4"H x 2.7"W x 2.3"D
- Material: noryl • Color: black



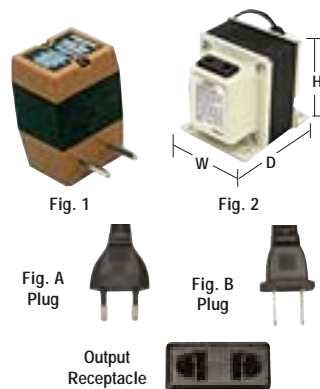
Part No.	Style	1	10	100
115051CM	Non-vented	\$2.25	\$1.95	\$1.69
115043CM	Vented	2.59	2.33	2.10

## International Step-Up and Step-Down Transformers

- Wide selection to meet your power requirements

Part Number	Cross Ref. Number*	Fig.	Type	Primary Voltage	Secondary Voltage	Power (VA)	H"	W"	D"	Wt. (lbs.)	1	10	100
99573CM	AC110V50	1/A	Auto	220VAC	110VAC	50	2.50	1.63	1.33	0.7	\$9.95	\$8.99	\$8.09
85016CM	AC110V300	2/A	Auto	220VAC	110VAC	300	3.50	3.05	3.95	4.8	27.95	24.95	22.49
111851CM	AC110V500	2/A	Auto	220VAC	110VAC	500	3.99	3.60	4.84	8.5	34.95	31.49	28.95
221250CM	GSD-1000	2/A	Auto	220VAC	110VAC	1000	4.63	3.81	6.06	17.0	59.95	50.96	38.22
142906CM	AC110V1500	2/A	Auto	220VAC	110VAC	1500	5.25	4.50	5.75	15.2	79.95	71.95	63.69
99477CM	AC220V50	1/B	Auto	110VAC	220VAC	50	2.50	1.63	1.33	0.7	8.95	8.09	7.25
85008CM	AC220V300	2/B	Auto	110VAC	220VAC	300	3.50	3.05	3.95	4.8	27.95	23.76	17.82
221217CM	P8689	2/B	Auto	110VAC	220VAC	1000	4.63	3.75	6.13	17.0	61.95	57.55	43.85
221313CM	G1SD-500	2/A	Isolation	220VAC	110VAC	500	4.69	3.75	6.00	16.0	89.95	80.95	72.85
222092CM	G1SD-1000	2/A	Isolation	220VAC	110VAC	1000	5.38	4.38	8.13	31.0	149.95	132.55	129.25
221330CM	G1S-500	2/B	Isolation	110VAC	110VAC	500	4.69	3.75	6.00	16.0	78.95	69.95	57.49

\* Manufacturer may vary



## Fixed and Variable Power Transformers

## 6VAC/9VAC Dual Output Power Transformer

## 12VA

- Input voltage: 120VAC
- Output voltage: 6VAC @ 500mA center tap (blue wires); 9VAC @ 1A center tap (yellow wires)
- Size: 2.1"L x 2.6"W x 2.0"H
- Weight: 1.3 lbs.



Part No.	Cross Ref. No.	1	10	100
183089CM	YS57H-099FAA	\$4.29	\$3.86	\$3.47

## 320VA Variable AC Transformer

- Input voltage: 110VAC @ 50-60Hz
- Matching input/output terminals: P/N 103667CM and 109111CM (disconnect .25" solderless terminals), pg 160
- Maximum current: 2.5A
- Shaft length: 0.5"
- Size: 2.8"Dia. x 2.1"H
- Weight: 2.5 lbs.
- Panel mount
- One-year warranty



Includes: 3 disconnect .25" solderless terminals

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	50
149323CM	320VA variable	\$53.95	\$48.59	\$43.75

## 550VA Variable AC Transformer

- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Rated current: 5A
- Panel mount
- Input/output terminals: binding post with 0.188" diameter post
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.
- One-year warranty



Part No.	Description	1	10	50
152936CM	550VA variable	\$71.45	\$64.34	\$57.92

## 120VAC to 120VAC Isolation Transformer

## 300VA

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



Part No.	Cross Ref. No.	1	10	100
181315CM	ITR300	\$44.95	\$38.21	\$28.66

## 110/220VAC Variable Transformers

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/ European output plugs
- Lighted on/off power switch



Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275CM	3A/250V (P/N 69438CM)	5.3 x 7.3 x 7.0	10.4
129007CM	5A/250V (P/N 10401CM)	9.4 x 6.5 x 7.7	14.8
152581CM	10A/250V (P/N 69462CM)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	10	50
121275CM	500VA trans.	\$98.35	\$88.49	\$79.69
129007CM	1000VA trans.	164.95	140.21	105.16
152581CM	2000VA trans.	179.95	149.95	116.95

## EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



## Round

Part No.	Size (OutDia. x InDia. x L)	1	10	100
218173CM	.64" x .20" x 1.15"	\$ .99	\$ .89	\$ .79
217841CM	.78" x .34" x 1.40"	1.45	1.29	1.15
318705CM	.82" x .45" x 1.42"	1.39	1.29	1.25

## Square

Quantity SAVE

Part No.	Size (L" x W" x H")	1	10	100
421673CM	1.25 x .71 x .74 (white)	\$1.85	\$1.57	\$1.18
421681CM	1.30 x .70 x .77 (black)	1.85	1.57	1.18

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com).

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange.

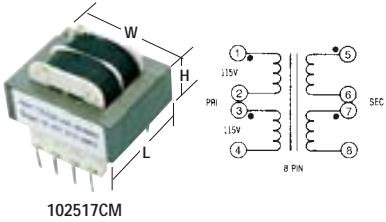


Details on page 330.

## Split-Bobbin Power Transformers

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement



Part No.	Cross Ref. No.	Triad Cross*	Input Voltage	VA	Individual Output	Parallel Output	Series Output	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
221292CM	DSW-312	FS12200	115/230	2.5	6.3V @ .20A	6.3V @ .40A	12.6VCT @ .20A	1.38	1.13	1.19	0.3	\$5.25	\$4.49	\$3.35
102533CM	XFR1205SB	FS12500	115/230	6.3	6.3V @ .50A	6.3V @ 1.0A	12.6VCT @ .50A	1.32	1.64	1.38	0.4	7.95	7.16	6.44
102517CM	XFR1602SB	FS16150	115/230	2.4	8V @ .15A	8V @ .30A	16VCT @ .15A	1.17	1.40	1.20	0.3	6.89	6.25	5.59
210921CM	14A-10-Z0B21	—	115/230	10.0	10V @ .05A	10V @ 1.0A	20VCT @ 0.5A	1.60	1.92	1.46	0.5	2.49	2.24	2.04
210956CM	DST2-24-845	—	115/230	1.1	12V @ .045A	12V @ .09A	24VCT @ .045A	1.17	1.40	0.95	0.2	6.49	5.85	5.25
176090CM	SPT41240-120	FS24250	115/230	6.0	12V @ .25A	12V @ .50A	24VCT @ .25A	1.32	1.63	1.40	0.5	5.95	5.25	4.59
102592CM	XFR2405SB	FS24500	115/230	12.0	12V @ .50A	12V @ 1.0A	24VCT @ .50A	1.58	1.90	1.46	0.7	8.79	7.95	5.49
249412CM	DST-5-16	—	115/230	12.8	8V @ .80A	8V @ 1.6A	16VCT @ .80A	1.57	1.88	1.42	0.6	8.95	8.09	7.25
148559CM	XFR3603SB	FS36350	115/230	12.6	18V @ .35A	18V @ .70A	36VCT @ .35A	1.59	1.91	1.46	0.7	7.49	6.37	4.77
209015CM	ST-6-48	—	115	19.2	24V @ .40A	24V @ .80A	48VCT @ .40A	1.88	2.25	1.40	0.8	2.59	2.32	2.11

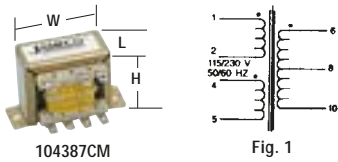
\* Triad cross is for reference only

Blue Part No. = Limited Quantity Available

## Quick-Connect Power Transformers

Quick-connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements

- Input voltage: 115/230VAC, 50-60Hz
- Terminals: quick connect, solder



Part No.	Cross Ref. No.	Triad Cross	Fig.	Input Voltage	Output Voltage	VA	Size of Connect	Dimensions			Wt. (lbs.)	Pricing		
								L"	W"	H"		1	10	100
104387CM	XFR1225Q	FD612	1	115/230VAC	12.6VCT @ 2.5A	31.5	0.141"	2.21	2.32	2.00	1.3	\$9.29	\$7.90	\$5.92
104408CM	XFR1635Q	FD716†	1	115/230VAC	16VCT @ 3.5A	56.0	0.141"	2.25	2.68	2.33	1.8	12.95	11.69	10.49
101864CM	XFR2424Q	FD724	1	115/230VAC	24VCT @ 2.4A	57.6	0.141"	2.10	2.70	2.29	1.7	11.95	10.70	9.52
104416CM	XFR3615Q	FD736	1	115/230VAC	36VCT @ 1.5A	54.0	0.141"	2.30	2.70	2.30	1.8	9.95	8.99	8.09

† Terminal solder lug are on same side

## 115VAC and 115/230VAC Power Transformers

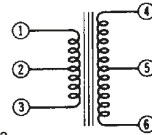
Power transformers have both single and dual-voltage input and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

Primary: 115VAC or 115/230VAC, 50-60Hz

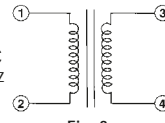


Fig. 1

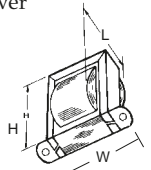
115VAC  
50-60Hz



115/230VAC  
50-60Hz



115VAC  
50-60Hz



Power

	Cross	Triad	Primary			Secondary					Lead	Fig.	Dimensions			Wt.	Pricing		
Part No.	Ref. No.	Cross	Color Code			VA	Voltage		Color Code		Type		L"	W"	H"	(lbs.)	1	10	100
102162CM	XFR6102	F314X	Black	Yellow*	Red	7.6	6.3VCT @ 1.2A	White	Black*	White	Wire	2	1.84	2.40	1.67	0.8	\$8.49	\$7.22	\$5.41
105523CM	XFR0910	—	Black	White*	Red	9.0	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.82	2.43	1.67	0.7	6.95	6.25	5.63
221399CM	P-8657	F218X	Black	—	Black	24.0	12VAC @ 2A	White	—	White	Wire	3	1.89	2.75	1.99	1.3	9.15	8.49	7.15
221356CM	P-8658	F219X	Black	—	Black	48.0	12VAC @ 4A	White	—	White	Wire	3	2.25	4.00	2.63	2.3	12.95	11.95	9.95
29225CM	XFR122	F44X	Yellow	—	Yellow	25.2	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.41	2.79	1.99	1.5	10.69	9.49	8.39
102154CM	XFR1220	F344X	Black	Yellow*	Red	25.2	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	10.95	9.31	6.98
149770CM	XFR1240	F3181U	Black	Red*	Yellow	50.4	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	3.20	2.25	2.2	12.95	11.69	10.49
102120CM	XFR124	F181U	Black	—	Black	50.4	12.6VCT @ 4A	White	Black*	White	Wire	1	2.45	3.21	2.26	2.7	12.95	11.69	10.49
105531CM	XFR1810	—	Blue	Red*	Black	18.0	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.20	2.81	1.99	1.2	6.95	5.91	4.43
149956CM	XFR1820	—	Black	Red*	Yellow	36.0	18VCT @ 2A	White	Black*	White	Wire	2	2.25	3.15	2.71	1.8	9.59	8.49	7.45
221381CM	P8396	—	Black	—	Black	9.6	24VCT @ 0.4A	White	Black*	White	Wire	1	1.63	2.80	1.97	0.6	6.95	6.26	5.63
102111CM	XFR2410	F346X	Black	Yellow*	Red	24.0	24VCT @ 1A	White	Black*	White	Wire	2	2.41	2.80	1.99	1.5	8.95	8.09	7.25
221372CM	P-8662	F192X	Black	—	Black	48.0	24VCT @ 2A	White	Black*	White	Wire	1	2.14	3.16	2.27	2.3	11.95	10.95	9.19
112512CM	XFR242N	F229X	Black	—	Black	48.0	24VAC @ 2A	White	—	White	Wire	3	2.33	3.16	2.28	1.8	10.35	9.39	8.49
221364CM	P-8663†	F193U	—	—	—	96.0	24VCT @ 4A	—	—	—	Lug	1	2.81	2.94	4.00	4.0	22.55	21.19	17.79
221410CM	P-8666†	F226U	—	—	—	288.0	24VCT @ 12A	—	—	—	Lug	1	4.63	3.75	4.63	11.2	45.95	41.85	38.17
996538CM	XFR242	—	Red	—	Red	49.2	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	3.22	2.30	2.5	11.95	10.35	7.99
102103CM	XFR2520	F341X	Black	White*	Red	50.4	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	3.22	2.26	2.8	14.95	12.71	9.53
149796CM	XFR2820	F3185U	Black	Red*	Yellow	56.0	28VCT @ 2A	White	Black*	White	Wire	2	2.45	3.22	2.26	2.3	12.95	11.69	8.59

† Solder terminals

\* Center tap

TRIAD

## Split Bobbin Transformers

- High-pot tested @ 2500Vrms
- 6-pin
- UL recognized
- Primary: 115/230VAC, 50-60Hz

NEW



Part No.	Prod. No.	VA	Secondary		Dimensions H" x W" x L"	Pricing		
			Series	Parallel		1	10	100
628308CM	F24-1500	36	24VCT @ 1.5A	12V @ 3.0A	9/16 x 2 3/16 x 2 3/16	\$14.55	\$9.88	\$9.08
628316CM	F24-800	20	24VCT @ 0.8A	12V @ 1.6A	17/16 x 1 1/16 x 2 1/4	11.25	7.60	7.09

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RoHS compliant product

♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

Details on page 1.

Color Code Legend  
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TRIAD

## Low Frequency Current Sensing Transformer

Designed to monitor current in low frequency applications. May be used to monitor current from 0.1A to 30A @ frequencies from 50Hz to 400Hz

- Turns ratio: primary to sense – 1:500

- Typical output: 110mV/amp

- Suggested burden resistor: 60Ω

- Constructed with UL recognized materials

- Hi-pot: 500V

- Sense DCR: 21Ω max.

- Primary DCR: 250μΩ max.



Part No.	Product No.	Description	1	10	100
627591CM	CSE187L	Current sensing transformer	\$2.09	\$1.81	\$1.66

NEW



## TRIAD Current Sensing Transformers

Current sense transformers are used to detect current passing through a conductor. These transformers are very reliable and operate effectively over the frequency range of 20kHz – 200kHz. Constructed of UL rated 130°C materials.

**NEW**



- Primary is inserted through hole in casing
- Rated primary current renders approximately 40°C temperature rise
- Arrow side of primary conductor has same polarity as pin #1

Part No.	Product No.	ET Vµsec Ref. 20kHz	Turns Count	Min. Ind. (mH)	DCR Max. (Ω)	Primary Arms	1	10	25
627621CM	CST306-1A	500	20	3.5	0.34	35.....	\$4.19	\$3.91	\$2.58
627647CM	CST306-2T	1000	100CT*	14	1.55	25.....	4.69	4.44	2.92

\*CT = center tap

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## We're Listening to What You Need



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## TRIAD

### Chassis Mount — Quick Pack

- Hi-pot tested at 2,500Vrms
- Terminal size: 0.187" x 0.021"
- Mounting hole size: 3/16" • CT = center tap

### Single Primary = 115V

Part No.	Product No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Price		
						1	10	100
628771CM	F4-24	B	6	24VCT @ 0.25A	2 1/8 x 1 1/4 x 1 3/8	\$6.95	\$5.93	\$5.39
628893CM	F5-16	B	12	16VCT @ 0.8A	2 1/8 x 1 3/8 x 1 5/8	7.59	5.95	5.51
628922CM	F5-35	B	12	36VCT @ 0.35A	2 1/8 x 1 3/8 x 1 5/8	7.59	6.59	5.90
629079CM	F6-24	C	30	24VCT @ 1.25A	3 1/4 x 1 11/16 x 1 5/8	10.29	8.97	8.03
629061CM	F6-120	C	30	120VCT @ 0.25A	3 1/4 x 1 11/16 x 1 5/8	11.89	8.83	8.03
629132CM	F7-12	C	56	12.6VCT @ 4A	3 1/4 x 1 13/16 x 2 1/4	14.29	12.48	11.17
629167CM	F7-24	C	56	24VCT @ 2.4A	3 1/4 x 1 13/16 x 2 1/4	14.29	12.48	11.17
618687CM	F8-16	E	100	16VCT @ 6.25A	4 1/2 x 2 1/4 x 2 1/8	20.55	18.05	16.15
618695CM	F8-20	C	100	20VCT @ 5A	4 1/2 x 2 1/4 x 2 1/8	20.55	19.13	16.04
618708CM	F8-24	C	100	24VCT @ 4A	4 1/2 x 2 1/4 x 2 1/8	20.55	18.05	16.15
618716CM	F8-36	C	100	36VCT @ 2.8A	4 1/2 x 2 1/4 x 2 1/8	18.19	15.83	15.50

### Dual Primary = 115/230V

Part No.	Product No.	Circuit	Pwr. (W)	Output	Dimensions (L" x W" x H")	Price		
						1	10	100
629191CM	FD4-12	D	6	12.6VCT @ 0.5A	2 1/8 x 1 1/4 x 1 3/8	\$8.45	\$7.35	\$6.58
629212CM	FD4-28	D	6	28VCT @ 0.2A	2 1/8 x 1 1/4 x 1 3/8	6.75	6.41	5.88
629280CM	FD5-16	D	12	16VCT @ 0.8A	2 1/8 x 1 3/8 x 1 5/8	9.35	8.14	7.29
629301CM	FD5-24	D	12	24VCT @ 0.5A	2 1/8 x 1 3/8 x 1 5/8	9.35	7.62	7.03
629319CM	FD5-28	D	12	28VCT @ 0.42A	2 1/8 x 1 3/8 x 1 5/8	10.79	8.01	7.29
629351CM	FD6-10	E	30	10VCT @ 3A	3 1/4 x 1 11/16 x 1 5/8	13.99	9.50	8.81
629378CM	FD6-20	E	30	20VCT @ 1.5A	3 1/4 x 1 11/16 x 1 5/8	13.99	9.50	8.81
629407CM	FD6-56	E	30	56VCT @ 0.54A	3 1/4 x 1 11/16 x 2 1/8	13.99	10.38	9.44
618775CM	FD8-24	E	100	24VCT @ 4A	4 1/2 x 2 1/4 x 2 1/8	21.65	20.14	17.73
618783CM	FD8-28	E	100	28VCT @ 3.6A	4 1/2 x 2 1/4 x 2 1/8	21.65	20.14	17.73

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RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## TRIAD Gate Drive Transformers

- Used in all high frequency switching topologies to isolate control circuitry from line-connected switches
- Turn ratios of 1:1 and 1:1.5
- Easily standardized at operating frequencies of up to 200kHz



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See Complete Gate Drive Transformer Offering at  
[www.Jameco.com/Prod/GateDriveTransformers](http://www.Jameco.com/Prod/GateDriveTransformers)

## Class 1 Current Transformer

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.

- Maximum voltage: 660VAC
- Frequency: 50-60Hz
- Size: 1.70"L x 2.95"W x 3.36"H
- Weight: 1.1 lbs.

Includes: Mounting bracket and hardware

**SALE**

Part No.	Cross Ref. No.	Power	Ratio	1	10	100
174887CM	MSQ30	5VA	200A/5A; 5VA	\$3.89	\$3.54	\$3.21



## Current Sensing Transformer

- Inductance: 5mH
- Sensitivity current (I<sub>in</sub>): 1A
- Freq. range: 10-50 kHz
- Terminating resistor: 50Ω
- Turns: 60
- Max. current: 300mA
- Sensitivity voltage (V<sub>out</sub>): 1V
- Size: 0.8"H x 0.7"W x 0.46"H



Part No.	Cross Ref. No.	1	10	100
164718CM	MTC30101	\$2.15	\$1.95	\$1.75

## Power Transformers

**NEW**

### Chassis Mont — Single Secondary

- CT = center tap
- Connectors: leads
- Mounting holes: X type case – 3/16"; U type case – 13/64" x 3/8"



Part No.	Product No.	Primary Voltage	Secondary Voltage	Case Type	Dimensions (H" x W" x D")	Price		
						1	10	100
628463CM	F-313X	115/230	6.3V @ 0.6A	X	1 3/8 x 2 3/8 x 1 3/8	\$12.55	\$9.31	\$8.47
627719CM	F-113X	115	12V @ 0.15A	X	1 3/8 x 2 3/8 x 1 3/8	7.95	5.40	5.18
627727CM	F-114X	115	12V @ 0.7A	X	1 3/8 x 2 3/8 x 1 3/8	8.65	5.82	5.43
618450CM	F-221U	115	12V @ 8A	U	3 1/8 x 3 3/8 x 2 1/8	21.99	18.71	15.44
628818CM	F-44X	115	12.6VCT @ 2A	X	1 1/8 x 3 5/8 x 2	11.29	8.86	8.26
628287CM	F-225X	115	12.6V @ 4A	X	2 5/8 x 4 x 2 1/8	15.15	12.23	11.36
618370CM	F-182U	115	12.6VCT @ 6A	U	3 3/8 x 2 3/8 x 2 1/8	41.79	35.09	28.39
627743CM	F-116X	115	24VCT @ 0.2A	X	1 3/8 x 2 3/8 x 1 1/4	12.85	8.74	8.09
628560CM	F-345X	115/230	24VCT @ 1A	X	1 1/8 x 3 3/8 x 2	12.79	10.47	10.02
618548CM	F-260U	115	24VCT @ 6A	U	3 1/4 x 3 3/8 x 3 1/4	37.69	25.09	23.74
628720CM	F-40X	115	26.8VCT @ 1A	X	1 1/8 x 3 5/8 x 2	9.85	8.05	7.70
628359CM	F-270U	115	40VCT @ 1A	U	2 1/8 x 4 x 2 1/8	19.95	14.81	13.46

### Chassis Mount — World Series

- High pot tested @ 4,000Vrms
- Primary: 115V/230V, 50/60Hz
- Mounting hole size: 13/64" x 3/8"
- CT = center tap
- Both primary and secondary coils may be connected as either series or parallel, but both must be used simultaneously

**NEW**



Part No.	Product No.	Pwr. (W)	Secondary		Dimensions (H" x W" x D")	Price		
			Series	Parallel		1	10	100
619022CM	VPS10-17500	175	10VCT @ 17.5A	5V @ 35A	3 3/4 x 3 1/8 x 2 1/8	\$33.49	\$25.83	\$23.40
619057CM	VPS16-8100	130	16VCT @ 8.1A	8V @ 16.2A	3 3/8 x 2 1/8 x 2 1/8	29.19	22.49	20.38



## Power Transformers (Continued)

## Chassis Mount — Control

- Hi-pot tested at 1,500Vrms
- Terminal: solder lugs
- Secondaries may be connected in series or parallel for expanded voltage and current ranges
- Commonly utilized in various electronics, electromagnetic, & electrical control applications



Part No.	Prod. No.	Pwr. (W)	Secondary		Case Type	Dimensions (H" x W" x D")	Price		
			Series	Parallel			1	10	100
618345CM	F-105Z	12	12VCT@1A	6V @ 2A	Z	2 $\frac{1}{8}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{4}$	\$15.15	\$14.41	\$13.06
618353CM	F-109U	192	24VCT@8A	12V @ 16A	U	4 $\frac{3}{16}$ x 3 $\frac{3}{16}$ x 3 $\frac{3}{16}$	48.19	42.91	37.65

## PC Mount — World Series

- Primary: 115/230V; 50/60Hz
- Hi-pot tested at 4,000Vrms
- Both primary and secondary coils may be connected as either series or parallel, but both must be used simultaneously
- CT = center tap



Part No.	Product No.	Pwr. (W)	Secondary		Pin Diameter	Dimensions (H" x W" x D")	Price		
			Series	Parallel			1	10	100
630571CM	VPP10-1000	10	10VCT @ 1A	5V @ 2A	0.036" sq.	1 $\frac{1}{8}$ x 1 $\frac{1}{8}$ x 1 $\frac{1}{8}$	\$11.05	\$7.50	\$6.95
630580CM	VPP10-2000	20	10VCT @ 2A	5V @ 4A	0.036" sq.	1 $\frac{1}{8}$ x 2 $\frac{1}{4}$ x 1 $\frac{1}{8}$	13.45	9.12	8.45
630660CM	VPP16-310	5	16VCT @ 0.31A	8V @ 0.062A	0.025" sq.	1 $\frac{1}{8}$ x 1 $\frac{1}{8}$ x 1 $\frac{1}{8}$	9.85	6.69	5.94
630678CM	VPP20-1500	30	20VCT @ 1.5A	10V @ 3A	0.045" sq.	1 $\frac{1}{8}$ x 2 $\frac{1}{8}$ x 2 $\frac{1}{8}$	15.45	10.53	9.31
630723CM	VPP24-210	5	24VCT @ 0.21A	12V @ 0.42A	0.025" sq.	1 $\frac{1}{8}$ x 1 $\frac{1}{8}$ x 1 $\frac{1}{8}$	9.85	6.69	5.94

## PC Mount — Flat Pack

- Primary: 115/230V, 50/60Hz
- Hi-pot tested at 2,000Vrms
- Split bobbin with side-by-side windings to reduce capacitance and eliminate the need for a static shield
- CT = center tap



Part No.	Product No.	Pwr. (W)	Secondary		Dimensions (H" x W" x L")	Price		
			Series	Parallel		1	10	100
629749CM	FP20-300	6	20VCT @ 0.3A	10V @ 0.6A	0.88 x 1.56 x 1.88	\$9.85	\$7.76	\$7.19
629773CM	FP24-250	6	24VCT @ 0.25A	12V @ 0.5A	0.88 x 1.56 x 1.88	9.85	7.76	7.19

## PC Mount — Single Primary, Dual Secondary

- Primary: 115V, 50/60Hz
- Hi-pot tested at 1,500Vrms
- CT = center tap
- Mounting hole size: 3/16"



Type A



Type B



Type D

Part No.	Prod. No.	Case Type	Pwr. (W)	Secondary		Dimensions (H" x W" x L")	Price		
				Series (VCT@A)	Parallel (V@A)		1	10	100
627903CM	F-136P	B	1.5	116 @ 0.013	58 @ 0.026	1 $\frac{1}{16}$ H x 1 $\frac{1}{16}$ L	\$17.95	\$13.34	\$12.14
627997CM	F-149XP	A	1.5	12.6 @ 0.35	6.3 @ 0.7	1 $\frac{1}{16}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{16}$	12.79	9.50	8.64
627954CM	F-143XP	A	4.5	30 @ 0.15	15 @ 0.3	1 $\frac{1}{16}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{16}$	10.39	9.14	7.92
627962CM	F-144XP	A	4.5	54 @ 0.084	27 @ 0.168	1 $\frac{1}{16}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{16}$	11.35	8.81	8.47
627989CM	F-146XP	A	4.5	116 @ 0.033	58 @ 0.066	1 $\frac{1}{16}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{16}$	12.85	8.70	8.36
628130CM	F-168XP	D	4.5	32 @ 0.05	15 @ 0.195	1 $\frac{1}{16}$ x 2 $\frac{1}{8}$ x 1 $\frac{1}{16}$	13.35	9.92	9.03

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## PC Mount — Split Pack

- Primary: 115/230V, 50/60Hz
- Hi-pot tested at 2,500Vrms
- CT = center tap
- PC terminal spacing for accurate placement

NEW



8-Pin

Part No.	Product No.	Pwr. (W)	Pins	Secondary		Dimensions (H" x W" x L")	Price		
				Series	Parallel		1	10	100
629976CM	FS16-070	1.1	8	16VCT @ 0.07A	8V @ 0.14A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	\$8.29	\$5.46	\$5.00
629917CM	FS120-01	1.1	8	120VCT @ 0.01A	60V @ 0.02A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	5.99	5.46	5.00
629888CM	FS10-250	2.5	8	10VCT @ 0.25A	5V @ 0.5A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	7.45	5.82	5.39
627858CM	F12-200	2.5	6	12.6VCT @ 0.2A	6.3V @ 0.4A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	7.29	4.94	4.58
628228CM	F20-120	2.5	6	20VCT @ 0.12A	10V @ 0.24A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	6.29	5.40	4.75
628404CM	F28-85	2.5	6	28VCT @ 0.085A	14V @ 0.17A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	7.29	4.94	4.58
628682CM	F36-65	2.5	6	36VCT @ 0.065A	18V @ 0.13A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	6.29	5.49	4.91
630168CM	FS56-045	2.5	6	56VCT @ 0.045A	28V @ 0.09A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	8.89	5.89	5.51
627786CM	F120-020	2.5	6	120VCT @ 0.02A	60V @ 0.04A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	7.29	5.40	4.75
627891CM	F12-500	6	6	12.6VCT @ 0.5A	6.3V @ 1A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	8.25	5.59	5.18
628244CM	F20-300	6	6	20VCT @ 0.3A	10V @ 0.6A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	7.15	5.59	4.96
629950CM	FS12-1000	12	8	12.6VCT @ 1A	6.3V @ 2A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	9.05	6.89	6.31
629992CM	FS16-800	12	8	16VCT @ 0.8A	8V @ 1.6A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	10.45	6.89	6.31
630011CM	FS20-600	12	8	20VCT @ 0.6A	10V @ 1.2A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	10.45	6.89	6.31
630053CM	FS24-500	12	8	24VCT @ 0.5A	12V @ 1A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	9.05	6.89	6.31
630096CM	FS28-420	12	8	28VCT @ 0.42A	14V @ 0.84A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	9.05	6.89	6.31
630133CM	FS48-250	12	8	48VCT @ 0.25A	24V @ 0.5A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	10.45	7.11	6.59
629001CM	FS56-220	12	8	56VCT @ 0.22A	28V @ 0.44A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 1 $\frac{1}{16}$	8.15	7.11	6.37
628391CM	F28-700	20	6	28VCT @ 0.7A	14V @ 1.4A	1 $\frac{1}{16}$ x 1 $\frac{1}{16}$ x 2 $\frac{1}{16}$	11.25	8.36	7.61
627866CM	F12-2850	36	6	12.6VCT @ 2.85A	6.3V @ 5.7A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 2 $\frac{1}{16}$	14.55	9.92	8.81
628084CM	F16-2250	36	6	16VCT @ 2.25A	8V @ 4.5A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 2 $\frac{1}{16}$	10.09	9.56	8.76
628236CM	F20-1800	36	6	20VCT @ 1.8A	10V @ 3.6A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 2 $\frac{1}{16}$	14.49	10.78	9.80
630037CM	FS24-1500	36	8	24VCT @ 1.5A	12V @ 3A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 2 $\frac{1}{16}$	16.05	10.88	9.79
628640CM	F36-1000	36	6	36VCT @ 1A	18V @ 2A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 2 $\frac{1}{16}$	11.49	10.87	10.25

## PC Mount — Dual Primary, Dual Secondary

- Primary: 115/230V, 50/60Hz
- Hi-pot tested at 1,500Vrms
- Mounting hole size: 3/16" • CT = center tap



Type A



Type B

Part No.	Prod. No.	Case Type	Pwr. (W)	Secondary		Dimensions (H" x W" x L")	Price		
				Series	Parallel		1	10	100
628535CM	F-333P	B	1.5	30VCT @ 0.05A	15V @ 0.1A	1 $\frac{1}{16}$ H	\$7.09	\$6.18	\$5.46
628631CM	F-359XP	A	10	24VCT @ 0.45A	12V @ 0.9A	1 $\frac{1}{16}$ x 2 $\frac{1}{16}$ x 1 $\frac{1}{16}$	6.59	5.74	5.06

## Isolation/Medical

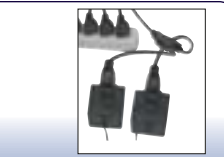
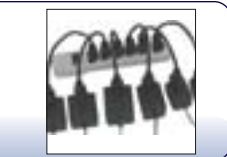
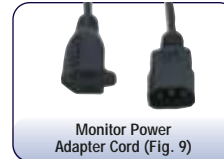
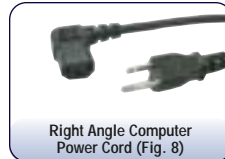
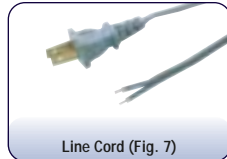
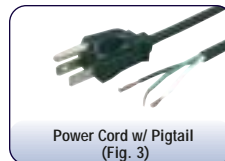
- Primary: 115/230VAC, 50/60Hz
- Hi-pot tested at 1,500Vrms
- Line cord, plug and receptacles are UL listed and verified to meet specifications
- Split winding
- Secondary: 115/230VAC



Part No.	Product No.	Pwr. (W)	Primary Voltage	Secondary Voltage	Connections	Dimensions (H" x W" x D")	Price		
							1	10	100
618943CM	N-66A	250	115/230	115V @ 2.17A	Leads	4 $\frac{1}{8}$ x 3 $\frac{1}{8}$ x 4 $\frac{1}{8}$	\$59.09	\$55.34	\$51.58

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## General Purpose Power Cords

**SALE**

Quantity SAVE

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- Temperature: -20°C to +60°C

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor "8" style power cord for laptops and power supplies

189587CM	VW-1	.30	1	6'	Black	18/2	SPT-2	\$2.95	\$2.65	\$2.37	\$2.10
355944CM	VW-1	.30	1	6'	Gray	18/2	SPT-2	2.05	1.84	1.48	1.11

### 2-conductor "D" style power cord for laptops and power supplies

200791CM	LL114039	.30	2	6'	Black	18/2	SPT-2	\$2.49	\$2.24	\$1.79	\$1.34
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### 3-conductor power cord with pigtail

279662CM	32V86S	.32	3	6'	Black	18/3	SVT	\$2.79	\$2.55	\$2.05	\$1.55
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### 3-conductor power supply cord (shielded)

190625CM	37805	.75	4	10'	Beige	18/3	SJT	\$3.49	\$3.14	\$2.51	\$1.88
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### 3-conductor power supply cord

192727CM	17501J	.64	4	10'	Black	18/3	SJT	\$3.95	\$3.56	\$2.84	\$2.13
249383CM	LL34977	.72	4	9'	Black	16/3	SJT	4.55	4.09	3.28	2.47

### 3-conductor computer power supply extension cord

527814CM	PWRCRG	.25	5	3'	Black	18/3	SJT	\$2.35	\$1.85	\$1.65	\$1.45
420224CM	10W1-02212	.53	5	12'	Black	18/3	SVT	3.89	3.02	2.87	2.73
319804CM	LR94903	.33	5	6'	Gray	18/3	SVT	4.15	3.74	2.99	2.24

### 3-conductor power cord w/hospital grade male (green dot)

265412CM	EXITOW	.70	6	10'	Gray	18/3	SJT	\$7.35	\$6.65	\$5.95	\$5.39
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## Jameco ValuePro™ Power Cords

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 2-conductor power cord with pigtail

152186CM	17106BG	.20	7	6'	Beige	18/2	SPT-2	\$1.29	\$1.16	\$ .93	\$ .73
124433CM	ST008	.16	7	6'	Black	18/2	SPT-2	1.15	1.03	.83	.77

### 2-conductor power cord with pigtail with strain relief

42041CM	17106	.25	7	6'	Black	18/2	SPT-2	\$1.15	\$1.03	\$ .93	\$ .78
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\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

† European standard insulation color code

Blue Part No. = Limited Quantity Available

## Jameco ValuePro™ Power Cords (Continued)

Part No.	Cross Ref. No.	Wt.	Fig.	Length	Color	AWG	Cord Type*	Pricing			
								1	10	50	100

### 3-conductor power cord with pigtail

38009CM	17237	.31	3	6'	Gray	18/3	SVT	\$2.39	\$2.15	\$1.72	\$1.29
37997CM	17236	.30	3	6'	Black	18/3	SVT	2.79	2.32	2.11	1.99
159409CM	17405B	.37	3	6'	Black	18/3	SJT	2.59	2.15	1.95	1.79
102007CM	17535B	.49	3	10'	Black	18/3	SVT	3.99	3.59	2.87	2.15
196285CM	LL40378	.80	3	10'	Black	16/3	SJT	3.95	3.27	2.97	2.80
100271CM	17629B	.88	3	9'	Black	14/3	SJT	5.15	4.52	4.16	3.85

### 3-conductor power supply cord (shielded)

213874CM	17660BG	.40	4	6'	Beige	18/3	SVT	\$3.59	\$3.25	\$2.95	\$2.65
142607CM	17502	.63	4	6'	Black	16/3	SJT	3.99	3.59	2.87	2.15

### 3-conductor power supply cord

103747CM	17248	.34	4	6'	Gray	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.49
38041CM	17249	.37	4	6'	Beige	18/3	SVT	3.49	3.15	2.51	1.88
38050CM	17250	.36	4	6'	Black	18/3	SVT	3.75	3.29	2.87	2.12
132118CM	17500	.44	4	6'	Black	18/3	SJT	4.49	4.04	3.65	3.29
171583CM	17502	.37	4	8'	Gray	18/3	SVT	3.49	3.14	2.51	1.88
171096CM	17758	.60	4	8'	Black	18/3	SJT	3.95	3.56	3.17	2.85
102023CM	17501V	.55	4	10'	Black	18/3	SVT	3.95	3.39	3.09	2.79
163361CM	6952299	.33	4	14'	Black	18/3	SJT	5.39	4.85	3.88	2.91

### 3-conductor right-angle power supply cord

117356CM	8120-6177	.41	8	6'	Gray	18/3	SVT	\$3.95	\$3.56	\$3.19	\$2.88
38076CM	17250R	.54	8	6'	Black	18/3	SVT	3.49	3.15	2.85	2.55

### 3-conductor computer power supply extension cord

28468CM	PEC	.36	5	6'	Black	18/3	SVT	\$3.89	\$3.50	\$2.80	\$2.10
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### 3-conductor power cord w/hospital grade male (green dot)

132011CM	17006G	.82	6	10'	Gray	16/3	SJT	\$8.45	\$7.61	\$6.84	\$6.16
115078CM	17006	.84	6	10'	Black	16/3	SJT	8.95	8.09	7.25	6.55

### 3-conductor computer monitor power adapter cord

177447CM	MPC1	.16	9	1'	Black	18/3	SVT	\$2.95	\$2.66	\$2.12	\$1.59
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### 3-conductor power cord (power strip saver)

199777CM	PSS-1	.16	11	1'	Black	18/3	SVT	\$1.69	\$1.55	\$1.39	\$1.25
208338CM	SY0527BG	.16	11	1'	Beige	18/3	SVT	1.69	1.45	1.09	1.03

### 3-conductor power cord ("Y" type power strip saver)

208346CM	GPR-2006	.38	12	2'	Black	18/3	SVT	\$3.25	\$3.09	\$2.89	\$2.75
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**SALE**

## Jameco ValuePro™ Power Cords (Continued)



AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875

Part No.	Volex X-Ref.	Fig. (p.248)	Plug Detail (see below)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	50	100

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, PVC, black

38025CM	17238	3	—	8'	18/3	SVT	\$3.29	\$2.75	\$2.45	\$2.25
339688CM	40407	3	290B	8'	18/3(16x30)	SJT	<del>\$2.79</del> 2.49	1.89	1.77	1.71
339717CM	17276-B	3	290B	20'	16/3(26x30)	SJT	<del>\$8.58</del> 7.59	6.73	5.18	<del>(3.63)</del>

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, rubber, black

339830CM	17412	3	290B	9'	18/3(16x30)	SJT	\$4.99	\$4.545	\$4.15	\$3.75
339696CM	17409	3	290B	8'	18/3(16x30)	SJO	5.75	5.59	4.49	3.99

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, shielded, black

339899CM	17741	3	290B	9'10"	18/3(41x34)	SVT	<del>\$8.59</del> 7.75	\$6.95	\$5.55	\$4.19
166924CM	17516	3	—	6'7"	14/3	SJT	4.15	3.75	3.39	3.05
339901CM	17517	3	173	9'10"	14/3(41x30)	SJT	5.99	5.39	4.59	3.69

### 3-conductor power cord w/ pigtail, NEMA 5-15P plug, unshielded, black

339661CM	17514	3	290B	6'7"	16/3(65x34)	SJT	\$3.65	\$3.27	\$2.79	\$2.09
339733CM	17534	3	290B	6'7"	18/3(41x34)	SVT	2.35	1.74	1.65	1.60
339741CM	17512	3	290B	6'7"	18/3(41x34)	SJT	<del>\$2.59</del> 2.35	2.15	1.95	1.75
339872CM	17513	3	290B	9'10"	18/3(41x34)	SJT	<del>\$3.59</del> 3.25	2.89	2.65	2.39
339881CM	17515	3	290B	9'10"	16/3(65x34)	SJT	<del>\$3.79</del> 3.45	3.35	3.25	3.15

### 3-conductor power cord w/ pigtail, NEMA, PVC, unshielded, gray

173809CM	17405	3	—	6'	18/3	SJT	\$2.35	\$2.15	\$1.89	\$1.59
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### 3-conductor power cord w/ pigtail, shielded, black


339995CM	17751	13	910	6'7"	18/3(41x34)	SVT	<del>\$4.05</del> 3.65	\$3.45	\$3.25	\$3.09
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### 3-conductor power cord w/ pigtail, unshielded, black

339987CM	17518	10	386A	6'7"	18/3(41x34)	SJT	<del>\$3.65</del> 3.29	\$2.79	\$2.55	\$2.29
340005CM	17520	10	386E	6'7"	18/3(26x30)	SJT	2.69	2.65	2.60	2.55
340021CM	17254	10	386	7'6"	18/3(41x34)	SVT	<del>\$2.55</del> 2.29	2.19	2.09	1.99
340056CM	17537	13	910	9'10"	18/3(41x34)	SJT	<del>\$4.15</del> 3.75	3.39	2.69	2.05
340064CM	17519	10	386E	9'10"	18/3(41x34)	SJT	<del>\$3.29</del> 2.99	2.85	2.69	2.55
340072CM	17521	10	386E	9'10"	16/3(26x30)	SJT	<del>\$4.25</del> 3.85	3.69	3.59	3.39
340099CM	17539	13	910	9'10"	16/3(26x30)	SJT	4.49	4.27	4.05	4.04

### 3-conductor power cord, "Y" twin end, black

340566CM	17268A	14	150/250A	6'	18/3(41x34)	SJT	\$7.85	\$5.84	\$5.55	\$5.29
340531CM	17269A	14	150/250A	10'	18/3(41x34)	SJT	<del>\$9.55</del> 8.59	6.45	6.15	5.85
340540CM	17271A	14	150/250A	10'	16/3(26x30)	SJT	<del>\$10.65</del> 9.59	7.19	6.85	6.49

\* Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service; SJO (Round): Junior service with oil-resistant jacket † Temp. rating: 105°C  Blue P/N = Limited Quantity Available

Part No.	Volex X-Ref.	Fig. (p.248)	Plug Detail (see below)	Length	AWG (Stranding)	Cord Type*	Pricing			
							1	10	50	100

### 3-conductor power cord w/ pigtail, shielded, black

339961CM	17250RS	10	—	6'	18/3	SVT	<del>\$2.85</del> 2.59	\$2.55	\$2.45	\$2.40
340013CM	17620	10	386E	6'7"	16/3(65x34)	SJT	<del>\$4.79</del> 4.35	4.09	3.89	3.69
340030CM	17750	10	386A	9'10"	18/3(41x34)	SVT	<del>\$3.99</del> 3.59	3.49	3.29	3.09
340081CM	17621	10	386E	9'10"	16/3(65x34)	SJT	<del>\$5.39</del> 4.85	4.65	4.45	4.19

### 3-conductor right angle detachable power cord, shielded, PVC, black

173251CM	17745	8	—	6'	18/3	SVT	\$3.95	\$3.55	\$3.19	\$2.88
340152CM	17606	8	290B/910	6'7"	18/3(41x34)	SJT	7.65	7.03	6.34	5.70
340224CM	17746	8	290B/910	9'10"	18/3(41x34)	SVT	<del>\$5.15</del> 4.65	3.49	3.39	3.29
340232CM	17607	8	290B/910	9'10"	18/3(41x34)	SJT	<del>\$9.99</del> 8.39	7.65	6.85	6.19
340259CM	17609	8	185/910	9'10"	16/3(65x34)	SJT	<del>\$10.59</del> 9.55	8.65	7.85	7.09

### 3-conductor right angle detachable power cord, unshielded, PVC, black

340321CM	17506	8	290B/910	6'7"	18/3(41x34)	SJT	\$4.09	\$3.72	\$3.35	\$3.02
340355CM	17508	8	290B/910	6'7"	16/3(26x30)	SJT	2.59	2.47	2.35	2.33
177383CM	17507	8	—	10'	18/3	SJT	4.15	3.75	3.29	2.79

### 3-conductor detachable power cord, shielded, PVC, black

161761CM	17742	15	290B/386A	6'	18/3	SVT	\$3.95	\$3.56	\$2.85	\$2.14
340144CM	17600	15	290B/386A	6'7"	18/3(41x34)	SJT	<del>\$7.65</del> 7.09	6.19	5.59	5.05
159361CM	17602	15	—	6'	16/3	SJT	3.79	3.41	2.73	<del>(2.05)</del>
340241CM	17603	15	185/386E	9'10"	16/3(65x34)	SJT	5.75	5.46	5.18	4.93
340267CM	17605	15	173/386E	9'10"	14/3(41x30)	SJT	11.45	10.54	9.57	8.79

### 3-conductor detachable power cord, foil shielded, PVC, black

340216CM	17661	15	290B/386A	9'10"	18/3(41x34)	SVT	<del>\$13.49</del> 12.15	\$9.09	\$8.65	\$8.25
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### 3-conductor detachable power cord, unshielded, PVC, black

340291CM	17001A	15	290B/386E	3'0"	16/3(26x30)	SJT	\$3.69	\$2.72	\$2.59	\$2.50
340312CM	17758	15	290B/386	6'7"	18/3(41x34)	SJT	4.95	4.56	4.09	3.69
340363CM	17504	15	173/386E	6'7"	14/3(41x30)	SJT	4.95	4.49	4.20	4.05
125541CM	17504	15	—	6'7"	14/3	SJT	4.95	4.46	4.01	3.12

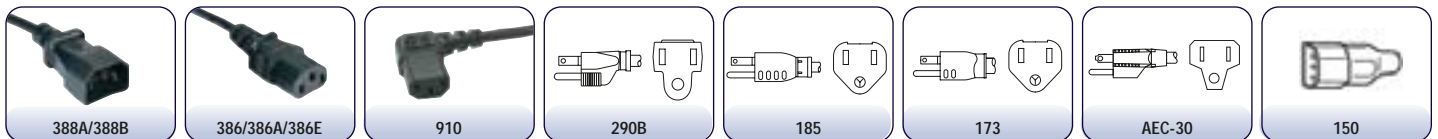
### 3-conductor jumper power cord, shielded, black

340515CM	17625	5	388B/386E	3'3"	16/3(26x30)	SJT	\$6.59	\$6.09	\$5.48	\$4.93
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### 3-conductor jumper power cord, unshielded, black

340486CM	17524	5	388B/386E	3'3"	18/3(41x34)	SJT	<del>\$3.65</del> 3.29	\$2.99	\$2.69	\$2.45
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## Plug Detail – Industry Standard Designations





## Volex Power Cords



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Type	Length	Feature	AWG Stranding	O.D.	Rating	Color	Pricing		
								1	10	100
481908CM	3-conductor midicord	8'	Plug/connector	18 (41 x 34)	0.315"	10A, 125V	Gray .....	\$7.29	\$6.54	\$6.21
481916CM	Extension	10'	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black .....	8.85	8.46	8.07
481924CM	Extension	8'	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black .....	7.65	7.15	6.66
481932CM	2-conductor	2'	Connector	18 (41 x 34)	11 x 0.22	1A, 250V	Black .....	1.45	1.36	1.27
481941CM	International	2 meter	Plug/connector	H05VVF3G 1mm <sup>2</sup>	—	10A	Black .....	4.75	4.53	4.31
481959CM	3-conductor	7'6"	Plug/connector	16 (26 x 30)	0.340"	13A, 125V	Black .....	4.45	4.16	3.87

See Our Complete Volex Power Cords Offering at [www.Jameco.com/Prod/Volex](http://www.Jameco.com/Prod/Volex)

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

## International Power Cords

- 3-conductor detachable power cords
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- BSI: British Standard Institution



Cord Configuration Chart – End 1



A

Cord Configuration Chart – End 2



117911CM (Fig. 1)



174633CM (Fig. 2)

Part No.	Cross Ref. No.*	Country	Agency Approvals	Cord Plug Fig.		Length	Cord Color	Conductors	Cord Type	Pricing			
				End 1	End 2					1	10	100	250
117911CM	PCVDE-6B	Europe	All in Fig. 3	A	1	6 ft.	Black	3/0.75mm <sup>2</sup>	H05VVf	\$5.49	\$4.95	\$4.45	\$3.75
174633CM	21071H5182	UK/Ireland	BSI	A	2	8 ft.	Black	3/1.0mm <sup>2</sup>	H05VVf	6.49	5.84	5.26	4.73

\* Manufacturer may vary

## European Agency Approvals

Germany	VDE	
Austria	OVE	
Belgium	CEBEC	
Denmark	DEMKO	
Finland	FIMKO	
France	LCIE	
Netherlands	KEMA	
Norway	NEMKO	
Sweden	SEMKO	
Switzerland	SEV	

Fig. 3

## Power Entry Filters and AC Receptacles

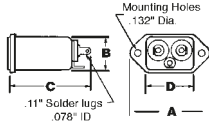


Fig. 1 (Solder Terminals)

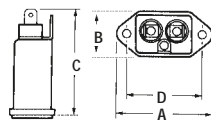


Fig. 2 (Fast-on Terminals)



Fig. 3 (210913CM)



Fig. 4 (16651CM)



Fig. 5 (218288CM)



Fig. 6 (117444CM)

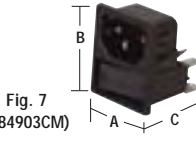


Fig. 7 (184903CM)



Fig. 8 (265527CM)



Fig. 9 (265527CM)



Fig. 10 (667454CM)



Fig. 11 (147109CM)

• Frequency: 50/60Hz

Part No.	Cross Ref. No.	Description	Fig.	Current (A)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (inches)				Pricing			
									A	B	C	D	1	10	100	500
150615CM	03AC1	Power entry filter, straight (flanged)	1	3	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.58	1.58	\$5.95	\$5.36	\$4.28	\$3.21
667462CM	YB06T1	Power entry filter, straight (flanged)	1	6	250	Fast-on	UL/CSA/VDE	0.26"	1.98	0.82	2.16	1.57	4.49	3.89	3.79	3.70
667438CM	YB03A1-A	Power entry filter, straight (flanged)	2	3	250	Fast-on	UL/CSA/VDE	0.26"	2.05	0.98	2.15	1.58	4.95	4.29	4.19	4.08
63132CM	06AE1	Power entry filter, straight (flanged)	2	6	250	Fast-on	UL/CSA/VDE	0.16"	1.96	0.88	2.06	1.58	6.95	6.29	5.65	5.09
16651CM	JR101	AC power inlet (male) flanged solder	4	10	250	Fast-on	UL/CSA/VDE	0.187"	1.96	0.89	1.07	1.58	.89	.80	.72	.65
218288CM	0708-1-CQ	AC power outlet (female) flanged	5	10	250	Fast-on	UL/CSA/VDE	0.189"	1.97	1.14	1.27	1.58	<del>\$5.1</del> .35	.29	.23	.21
117444CM	0717	AC power inlet (male) w/ fused chamber (snap-in)	6	10	250	Fast-on	UL	0.187"	1.18	1.30	1.21	N/A	1.95	1.79	1.59	1.45
321621CM	WS-044A	AC power inlet (male) w/ fuse chamber & fuse (snap-in)	8	10	250	Fast-on	UL/CSA/VDE	0.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29
667454CM	SM8301	Power entry filter, straight (flanged)	10	10	250	Fast-on	UL/CSA/VDE	0.25"	1.97	0.88	1.06	1.57	.52	.494	.44	.386

### Other Manufacturers — Great Deals

165016CM	SUP-J15G-E-2	Power entry filter, straight (flanged)	1	15	250	Solder	UL/CSA/VDE	0.16"	1.89	0.88	2.18	1.58	\$5.95	\$5.35	\$4.85	\$4.05
395647CM	2VK1	Power entry filter	9	2	250	Fast-on	UL/CSA/VDE	0.25"	2.81	0.91	3.10	N/A	6.95	6.05	5.49	5.22
210913CM	01GEEW3E	Power entry filter, straight (flanged)	3	1	250	Wire	UL/CSA/VDE	4.1"	2.05	0.99	1.78	1.58	5.95	5.36	4.28	3.21
147109CM	42R02	AC power inlet (male) snap-in	11	15	250	Fast-on	UL/CSA	0.25"	1.22	0.94	1.13	N/A	.65	.59	.51	.46
147900CM	P0707*	AC power inlet (male) flanged	4	15	250	Fast-on	UL/CSA	0.16"	1.97	0.88	1.09	1.58	.69	.62	.50	.37
184903CM	42R363152IOU	AC power inlet (male) w/ switch (snap-in)	7	10	250	Fast-on	UL/CSA/VDE	0.25"	1.30	1.58	1.42	N/A	1.95	1.76	1.40	1.05
265527CM	WS-044	AC power inlet (male) w/ fuse chamber (snap-in)	8	10	250	Fast-on	UL	0.185"	1.73	1.29	0.77	1.42	1.79	1.59	1.39	1.29

\* Manufacturer may vary † Includes spare fuse holder – Fuse type 5mm x 20mm (250V)

Blue Part No. = Limited Quantity Available

### More Power Cords

See pages  
248 & 249



### corcom Snap-In Power Entry Filter

- Frequency: 50/60Hz
- Current: 6.0A
- Voltage: 250VAC
- Connector block terminal
- Terminal size: 0.045"



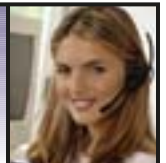
Part No.	Cross Ref. No.	A"	B"	C"	D"	1	10	100
611397CM	6J4	2.75	1.87	1.17	1.58	\$21.95	\$21.15	\$20.40

◆ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Free Technical  
Support

Our knowledgeable Tech Support department is  
ready to answer your questions. Just call us!

1-800-831-4242



## Lead Acid Batteries

- Sealed
- UL approved
- Rechargeable
- Two-year warranty



Part Number	Product Number	Nominal Voltage	Amp-Hrs.	Cross Reference				Terminal Size	Size (L" x W" x H")	Wt. (lbs.)	Pricing	
				Panasonic	YUASA	Eagle Picher	Tempest				1	10
264014CM	TY-6-4.5	6	4.5	LCR6VP	NP4-6	CF16V4	TR-4-6	Quick connect 0.187"	2.8 x 1.9 x 4.0	1.9	\$8.99	\$7.89
317024CM	LA-TY-6-12	6	12.0	—	—	—	—	Quick connect 0.187"	5.9 x 1.9 x 3.7	4.6	14.69	12.75
318941CM	LA-TY-12-.8	12	0.8	—	—	—	—	9" wire w/o connector	3.8 x 1.0 x 2.4	0.8	<del>\$16.39</del> 13.79	13.15
318844CM	LA-TY-12-1.2	12	1.2	—	—	—	—	Quick connect 0.187"	3.8 x 1.7 x 2.1	1.3	16.09	14.59
264031CM	TY-12-2.3	12	2.3	LCR12V2.2P	NP2.3-12	CF12V1.5	TR2.3-12	Quick connect 0.187"	7.0 x 1.3 x 2.4	2.1	15.39	14.59
318924CM	LA-TY-12-3.2	12	3.2	—	—	—	—	Quick connect 0.187"	5.3 x 2.7 x 2.4	3.1	16.19	14.69
264049CM	TY-12-4.5	12	4.5	LCR12V4PF	NP412	CF12V4	TR4-12	Quick connect 0.187"	3.5 x 2.8 x 4.0	3.8	18.15	16.73
264057CM	TY-12-7	12	7.0	LCR12V7.2BP	NP712	CFM12V65	TR7.5-12	Quick connect 0.187"	5.9 x 2.6 x 4.7	5.6	18.15	16.21
264065CM	TY-12-12	12	12.0	PS12120	—	CFM12V12	TR12-12	Quick connect 0.187"	5.9 x 3.9 x 3.9	9.0	30.65	28.25
264073CM	TY-12-18	12	18.0	LCR12V17BP	NPG18-12	CF12V18	TR18-12	Quick connect 0.472"	7.1 x 3.0 x 6.6	13.3	32.85	28.15
318852CM	LA-TY-12-35	12	35.0	—	—	—	—	Quick connect 0.644"	7.6 x 5.1 x 6.3	27.6	47.79	41.69



Tempest is an ISO-9001 Certified Company

Part No.	Product No.	Nominal Voltage	Amp-Hrs.	Standby Voltage	Cyclic Voltage	Terminal Size	(L" x W" x H")	Wt. (lbs.)	1	10
218421CM	TR22-12	12	22	13.6-13.8	14.5-14.9	Terminal pad 0.472"Dia.	7.2 x 3.0 x 6.6	15.0	\$39.95	\$35.95

## Automatic Battery Chargers

- Safely charge and maintain lead acid batteries without supervision
- High frequency MOSFET switching design • Safe for gel cell batteries
- Multi-stage charging circuit prevents batteries from overcharging
- Extends battery life • Input voltage: 98 to 132VAC @ 50/60Hz • Output banks: 3
- Analog amp meter • Short-circuit, overload, and reverse polarity protection

**NEW**



673416CM

Part No.	Product No.	Output Volt. DC @ Current	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
673416CM	SEC-1215A	13.5V @ 15A	8.5 x 8.4 x 3.3	4.8	\$141.55	\$134.49	\$127.75
673424CM	SEC-1230A	13.5V @ 30A	10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49
673432CM	SEC-2415A	27V @ 15A	10.8 x 8.4 x 3.3	6.4	236.55	224.75	213.49

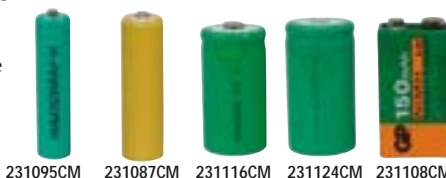


## Long-Lasting Rechargeable NiMH Batteries

Why buy & throw away hundreds of batteries?  
 Now you can reuse longer-lasting, money saving  
 NiMH rechargeable batteries instead! They feature  
 twice the power of NiCd batteries, so they're ideal  
 for power-hungry devices like digital cameras  
 and camcorders.

### NiMH Batteries

Part No.	Description	1	10	25	100
231095CM	2x AAA, 600mAh	\$6.95	\$6.25	\$5.65	\$5.05
231087CM	4x AA, 1600mAh	13.95	12.55	11.29	10.19
231116CM	2x C, 3000mAh	12.49	11.24	10.12	9.11
231124CM	2x D, 7000mAh	17.99	16.19	12.95	10.96
231108CM	1x "9V", 150mAh	8.39	7.65	6.95	6.85



231095CM 231087CM 231116CM 231124CM 231108CM

## Silver Oxide, Zinc Chloride & Alkaline Batteries

Applications: personal computers, workstations, test equipment,  
 feature telephones, copiers, fax machines, video scramblers/  
 descramblers and remotes.

### Silver Oxide

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
140783CM	357	1	Button	1.55	1600	0.454"Dia.	\$1.75	\$1.49	\$1.25

Fig. 1



Fig. 2

### Zinc Chloride

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
151095CM	GF6F22	2	9V	9	300	1.7"L x 1.0"W x 0.67"H	\$1.25	\$0.99	\$0.79

### Alkaline

Part Number	Cross Ref. No.	Figure	Size	Volts	mAh	Dimensions	1	10	25
249181CM	LR031.5V	3	AAA	1.5	—	1.7"L x 0.40"Dia.	<del>\$1.49</del> \$1.05	\$0.95	\$0.83
150965CM	Rayovac 840	4	—	4.5	600	1.14"L x 0.73"W x 0.96"H	9.95	8.99	8.06
198791CM	MN1604	2	9V	9	500	1.7"L x 1.0"W x 0.67"H	2.85	2.55	2.29



Fig. 3



Fig. 4

## Eveready® Energizer® Alkaline Batteries



Energizer® and the Energizer Bunny® are registered trademarks of the Eveready Battery Company, Inc.

- Single-use Energizer® alkaline batteries for heavy drain and frequent use applications

Part No.	Size	1	10
198731CM	9-volt	\$1.89	\$1.81
215845CM	D	1.12	1.08

- Prepackaged: order in increments of 4

Part No.	Size	4	40	100
198707CM	AA	\$0.64	\$0.62	\$0.61
198715CM	AAA	.49	.44	.43

## NiCd/NiMH Charger

Universal battery charger for  
 AAA, AA, C, D and "9V" cells  
 (batteries not included).

- Recharge batteries singly or as a group
- Automatic charging current selection for different sizes of batteries
- Fast charging in the specified period with an automatic switch for trickle charge
- LED lamp to indicate proper charging
- Built-in IC timer control

Part No.	Description	1	5	10
231132CM	Universal charger	\$17.09	\$15.55	\$15.10

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Email us 24/7 at [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com)  
 with suggestions for products you'd like  
 to see in future catalogs.

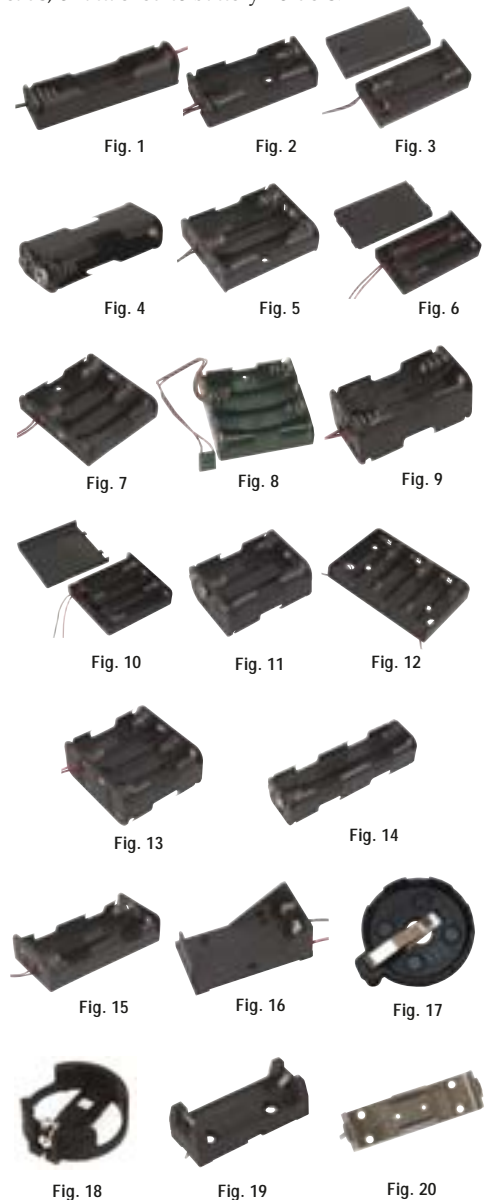


Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, or attached to battery holders.

Part No.	Cross Ref. No.	Fig.	No. of Cells	Connector	Sides	Features	1	10	100	500
216071CM	BH-311-2A	1	1-AA	Wires	Single		\$.69	\$.62	\$.56	\$.46
216080CM	BH-321-2A	2	2-AA	Wires	Single		.69	.62	.56	.50
216098CM	BH-321-4A	2	2-AA	Wires	Single	With mounting tabs	.59	.53	.42	.32
216101CM	SBH-321-2A	3	2-AA	Wires	Single	With cover, no switch	.59	.53	.42	.32
216119CM	SBH-321-1AS	3	2-AA	Wires	Single	With cover and switch	.79	.71	.64	.54
216127CM	BH-322-1B	4	2-AA	Snaps	Dual		.59	.53	.42	.315
216135CM	BH-331-A	5	3-AA	Wires	Single		.89	.79	.72	.65
216143CM	SBH-331-AS	6	3-AA	Wires	Single	With cover and switch	.99	.79	.71	.53
216151CM	BH-341-2A	7	4-AA	Wires	Single		.99	.89	.84	.79
105857CM	* 8	8	4-AA	Wires	Single	Wires with connector	.89	.80	.59	.443
216178CM	BH-343-1A	9	4-AA	Wires	Dual		.65	.55	.47	.35
216186CM	SBH-341-1AS	10	4-AA	Wires	Single	With cover and switch	1.09	.89	.85	.75
216194CM	BH-341-2B	7	4-AA	Snaps	Single		.49	.39	.36	.32
216207CM	BH-343-1B	9	4-AA	Snaps	Dual		\$.59.39	.35	.31	.28
216215CM	BH-363-A	11	6-AA	Wires	Dual		.89	.80	.72	.65
216223CM	BH-364-A	12	6-AA	Wires	Single		.95	.85	.69	.51
216231CM	BH-363-B	11	6-AA	Snaps	Dual		.99	.75	.69	.65
216240CM	BH-383-A	13	8-AA	Wires	Dual		1.09	.98	.78	.59
216258CM	BH-382-B	14	8-AA	Snaps	Dual		1.19	.99	.89	.85
216266CM	BH-383-B	13	8-AA	Snaps	Dual		1.19	.99	.86	.64
216274CM	BH-411-1A	1	1-AAA	Wires	Single		.49	.38	.36	.35
216282CM	BH-421-1A	2	2-AAA	Wires	Single		.59	.53	.48	.43
216291CM	SBH-421-AS	3	2-AAA	Wires	Single	With cover and switch	.65	.59	.47	.35
216303CM	BH-431-1A	5	3-AAA	Wires	Single		.69	.62	.56	.49
216311CM	SBH-431-1AS	6	3-AAA	Wires	Single	With cover and switch	.79	.69	.59	.49
216320CM	BH-441-1A	7	4-AAA	Wires	Single		\$.89.55	.49	.45	.41
216338CM	SBH-441-AS	10	4-AAA	Wires	Single	With cover and switch	1.25	1.12	.90	.68
216346CM	BH-211-A	1	1-C	Wires	Single		.55	.50	.40	.30
216354CM	BH-221-A	2	2-C	Wires	Single		1.19	1.07	.86	.65
216362CM	BH-242-1A	15	4-C	Wires	Single		1.39	1.29	1.09	.99
216371CM	BH-111-1A	1	1-D	Wires	Single		.69	.59	.54	.49
216389CM	BH-121-1A	2	2-D	Wires	Single		.99	.89	.71	.53
216397CM	BH-121-1B	2	2-D	Snaps	Single		\$.99.39	.35	.30	.28
216400CM	BH-142-A	15	4-D	Wires	Single		1.19	1.07	.96	.72
216418CM	BH-143-1A	7	4-D	Wires	Single		1.15	.89	.81	.74
216426CM	BH-9V-A	16	1-9V	Wires	Single		.79	.69	.64	.59
216434CM	BH-511-1A	1	1-N	Wires	Single		.29	.24	.22	.20
38543CM	2S2325	17	1-CR2354 or 2-CR2325	PC Mount	Coin cell		1.10	.99	.89	.66
355434CM	17002-00603	18	1-CR2032	PC Mount	Coin cell		.63	.58	.49	.47
<b>Other Manufacturers — Great Deals</b>										
644009CM	1026	17	2-CR2016	PC Mount	Coin cell		\$.77	\$.69	\$.55	\$.42
237315CM	1029	19	1-2/3AA	PC Mount	Single		.59	.53	.48	.43
236996CM	103	17	1-CR2032	PC Mount	Coin cell		.99	.85	.69	.55
643954CM	139	20	1-AA	Tabs	Single		.63	.56	.51	.41

\* Battery holder used in many personal computers

Blue Part No. = Limited Quantity Available



## Compact Battery Tester

Simply lift the swivel arm of this battery tester and place your battery between the contacts and it will provide you a voltage measurement of your batteries. Tests AAA, AA, C, D, 9V and button cell batteries.

Blue Part No. = Limited Quantity Available



Part No.	Description	1	5
239556CM	Compact battery tester	\$4.49	\$3.99

## "9-Volt" Battery Snaps and Clip

- Use with standard "9 volt" batteries
- Fully insulated; contacts are nickel-plated brass
- Leads are color-coded, stripped and pre-tinned
- Snap: male outer dia. = 0.225" • Female inner dia.: 0.215"



Fig. 1

Fig. 2

\* 10 piece minimum

Part No.	Fig.	Description	Dimensions (in.)			Pricing			
			L	W	H	1	10	100	1000
11279CM	1	3", 26 AWG, 6 prong battery snap	1.0	.50	—	\$.25	\$.22	\$.19	\$.16
105793CM	2	Battery holder clip	.63	.71	1.2	.28	.23	.16	.14
109153CM	3	6", 26 AWG, 6 prong battery snap	1.0	.50	—	*	.17	.15	.135
101469CM	3	10", 26 AWG, 6 prong battery snap	1.0	.50	—	.28	.257	.238	.124
216451CM	4	6", 26 AWG, 6 prong battery snap	1.0	.50	—	.34	.30	.20	.18

Fig. 3

Fig. 4

See our extensive kit selection. Now with complete details for each item, on pages 322-328.

## Rechargeable Battery Packs

**SALE**

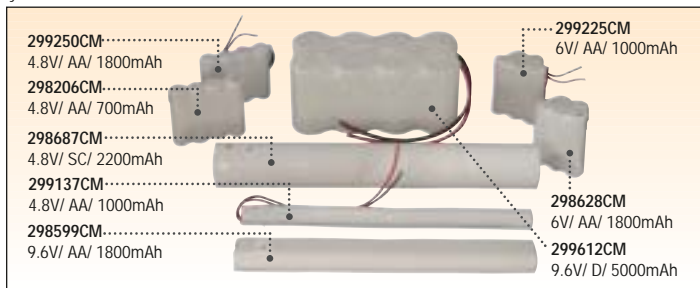
Special  
 Sale All Battery  
 Packs 10% Off.  
 Limited Time

Jameco ReliaPro™ rechargeable battery packs are available in many configurations and capacities. Each series-connected pack is available with 6" lead wires or 0.125"W x 0.4"L solder tab hook-ups. Available in economical NiCad and powerful NiMH compositions.

- AA single cell: 1.92"L x 0.56"Dia. (48.8mm x 14.2mm)
- SC single cell: 1.65"L x 0.86"Dia. (41.9mm x 21.8mm)
- D single cell: 2.36"L x 1.26"Dia. (59.9mm x 32.0mm)

• Blue Part No. = Limited Quantity Available

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
2.4 Volts					1	10	25		1	10	25
	AA	NiCad	700	298097CM	\$3.45	\$3.15	\$2.83	298935CM	\$4.79	\$4.69	\$4.55
	AA	NiCad	1000	298337CM	4.79	4.35	3.89	299081CM	5.89	5.65	5.39
	AA	NiMH	1800	298484CM	8.45	7.65	6.85	299233CM	10.15	9.69	9.19
	SC	NiCad	2200	298636CM	9.29	8.79	8.35	299381CM	9.29	8.45	7.69
	D	NiCad	5000	298783CM	18.35	16.65	15.12	299532CM	18.55	16.89	15.33
	AA	NiCad	700	298214CM	\$3.15	\$2.85	\$2.56	298960CM	\$4.25	\$3.85	\$3.47
	AA	NiCad	1000	298361CM	4.85	4.25	3.19	299111CM	5.89	5.69	5.45
	AA	NiMH	1800	298513CM	6.85	6.25	5.68	299268CM	8.65	7.85	7.12
	SC	NiCad	2200	298661CM	9.29	8.79	8.39	299410CM	10.15	9.69	9.25
	D	NiCad	5000	298812CM	22.19	19.99	17.79	299567CM	18.55	16.89	15.33



				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
3.6 Volts					1	10	25		1	10	25
	AA	NiCad	700	298193CM	\$5.55	\$5.29	\$4.89	299090CM	\$8.39	\$7.69	\$7.05
	AA	NiCad	1000	298345CM	7.25	6.55	5.85	299241CM	11.59	10.59	9.39
	AA	NiMH	1800	298492CM	10.69	10.15	9.35	299399CM	11.85	10.75	9.75
	SC	NiCad	2200	298644CM	10.99	9.89	8.89	299541CM	25.65	23.29	21.16
	D	NiCad	5000	298791CM	24.85	22.59	20.53	298978CM	\$5.95	\$5.39	\$4.89
	AA	NiCad	700	298222CM	\$5.55	\$5.29	\$4.69	299129CM	6.75	6.15	5.58
	AA	NiCad	1000	298370CM	5.15	4.65	4.22	299428CM	11.85	10.75	9.75
	AA	NiMH	1800	298521CM	9.29	8.79	8.39	299575CM	25.65	23.29	21.16
	SC	NiCad	2200	298679CM	10.99	9.89	8.89	299057CM	\$5.15	\$4.99	\$4.70
	D	NiCad	5000	298821CM	24.85	22.59	20.53	299209CM	7.19	6.55	5.85
	AA	NiCad	700	298302CM	\$4.89	\$4.45	\$4.01	299356CM	11.39	10.35	9.40
	AA	NiCad	1000	298450CM	6.05	5.49	4.99	299508CM	12.35	11.25	10.19
	AA	NiMH	1800	298601CM	9.69	8.85	8.00	299655CM	27.39	24.89	22.63
	SC	NiCad	2200	298759CM	11.55	10.49	9.52				
	D	NiCad	5000	298901CM	29.29	26.65	24.20				

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
6.0 Volts					1	10	25		1	10	25
	AA	NiCad	700	298329CM	\$6.65	\$6.05	\$5.46	299073CM	\$9.25	\$8.05	\$7.69
	AA	NiCad	1000	298476CM	10.09	9.09	8.19	299225CM	11.89	9.95	9.05
	AA	NiMH	1800	298628CM	13.29	12.09	10.97	299372CM	17.75	15.29	14.59
	SC	NiCad	2200	298775CM	16.89	14.39	12.95	299524CM	17.75	15.19	13.79
	D	NiCad	5000					299680CM	48.39	41.25	39.19

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
7.2 Volts					1	10	25		1	10	25
	AA	NiCad	700	298257CM	\$8.35	\$7.55	\$6.86	299006CM	\$11.45	\$10.35	\$9.49
	AA	NiCad	1000	298409CM	14.39	12.95	11.65	299153CM	15.25	13.75	12.45
	AA	NiMH	1800	298556CM	14.35	13.05	11.82	299305CM	19.09	17.25	15.59
	SC	NiCad	2200	298708CM	20.79	18.69	16.85	299452CM	18.49	16.85	15.28
	D	NiCad	5000	298855CM	49.75	45.25	41.15	299604CM	49.99	45.45	41.30



				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
9.6 Volts					1	10	25		1	10	25
	AA	NiCad	700	298281CM	\$8.35	\$7.59	\$6.87	299031CM	\$9.09	\$8.25	\$7.49
	AA	NiCad	1000	298433CM	11.35	10.29	9.34	299330CM	19.09	17.25	15.59
	AA	NiMH	1800	298581CM	18.25	16.39	14.75	299639CM	50.15	45.55	41.40
	SC	NiCad	2200	298732CM	20.79	18.69	16.85				
	D	NiCad	5000	298880CM	49.85	45.35	41.20				

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
4.8 Volts					1	10	25		1	10	25
	AA	NiCad	700	298206CM	\$5.55	\$5.05	\$4.59	298951CM	\$7.85	\$7.19	\$6.55
	AA	NiCad	1000	298505CM	13.59	12.89	11.99	299102CM	10.45	9.49	8.59
	AA	NiMH	1800	298652CM	13.89	12.49	11.25	299250CM	14.39	13.75	13.09
	SC	NiCad	2200	298804CM	31.39	28.55	25.93	299401CM	14.75	13.35	12.09
	D	NiCad	5000					299559CM	32.19	29.25	26.58

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
9.6 Volts					1	10	25		1	10	25
	AA	NiCad	700	298265CM	\$11.09	\$10.09	\$9.14	299014CM	\$14.95	\$13.49	\$12.25
	AA	NiCad	1000	298716CM	27.75	24.95	22.45	299313CM	24.55	22.15	20.05
	AA	NiMH	1800	298863CM	66.35	60.29	54.80	299461CM	28.59	25.79	23.29
	SC	NiCad	2200					299612CM	80.59	72.59	70.89

				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
4.8 Volts					1	10	25		1	10	25
	AA	NiCad	700	298249CM	\$5.55	\$5.05	\$4.59	298994CM	\$6.35	\$5.75	\$5.22
	AA	NiCad	1000	298396CM	7.65	6.95	6.28	299170CM	8.35	7.59	6.89
	AA	NiMH	1800	298548CM	13.55	12.85	11.95	299321CM	14.39	13.75	13.09
	SC	NiCad	2200	298695CM	13.89	12.25	11.25	299479CM	14.75	13.35	12.09
	D	NiCad	5000	298847CM	31.29	28.45	25.84	299591CM	32.05	29.15	26.48

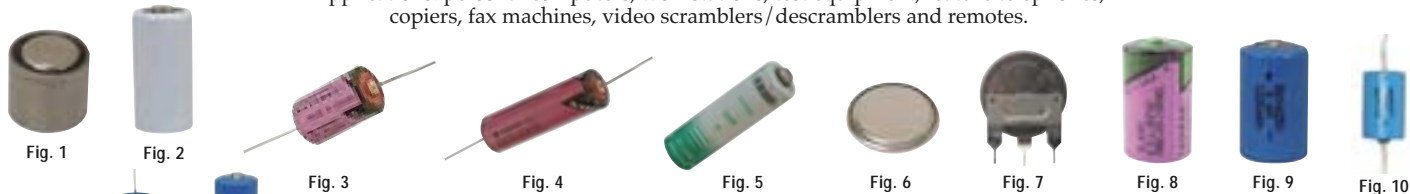
				Solder Tabs				Lead Wires			
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
9.6 Volts					1	10	25		1	10	25
	AA	NiCad	700	298290CM	\$8.65	\$7.89	\$7.14	299049CM	\$10.99	\$9.89	\$8.89
	AA	NiCad	1000	298441CM	10.75	9.75	8.86	299196CM	14.49	13.09	11.89
	AA	NiMH	1800	298599CM	16.69	15.15	13.77	299348CM	22.09	19.99	18.05
	SC	NiCad	2200	298741CM	21.99	19.79	17.79	299495CM	22.89	20.69	18.69
	D	NiCad	5000	298898CM	46.25	42.05	38.19	299647CM	57.85	52.15	49.55

				Solder Tabs			Lead Wires				
				Jameco Part No.	Pricing			Jameco Part No.	Pricing		
4.8 Volts					1	10	25		1	10	25
	AA	NiCad	700	298231CM	\$5.65	\$5.09	\$4.63	298986CM	\$6.35	\$5.79	\$5.25
	AA	NiCad	1000	298388CM	7.59	6.89	6.25	299137CM	8.35	7.55	6.86
	AA	NiMH	1800	298530CM	9.85	8.99	8.14	299284CM	12.19	11.09	10.07
	SC	NiCad	2200	298687CM	13.89	12.49	11.25	299436CM	14.75	13.35	12.09
	D	NiCad	5000	298839CM	39.99	35.99	32.39	299583CM	32.15	29.25	26.55

## Lithium, Lithium Ion and NiCd Batteries

**SALE**

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



### Lithium & Lithium Ion

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
618011CM	CR1/3N	1	—	3	160	Photocell	0.43"H x 0.46"Dia.	\$2.45	\$2.08	\$1.56
240258CM	CR123A	2	—	3	1300	Photo/computer	1.36"L x 0.65"Dia.	2.65	2.45	2.35
33371CM	TL5101P	3	1/2AA	3.6	850	Barrel w/ leads (clock/mem.)	0.93"L x 0.56"Dia.	5.79	5.27	4.45
33398CM	TL5104P	4	AA	3.6	1900	Barrel w/ leads (clock/mem.)	1.88"L x 0.56"Dia.	5.95	5.49	5.19
146114CM	TL2100S	5	AA	3.6	1900	Barrel pressure (clock/mem.)	1.91"L x 0.56"Dia.	6.95	6.29	5.65
673627CM	FBL414/F90	—	Coincell	2	1	Vertical PC mount	0.19"Dia x 0.07"Thick	1.49	1.29	.99
240186CM	CR1616	—	Coin Cell	3	55	Clock/memory/watch	0.07"Dia. x 0.61"Th.	.35	.32	.29
240207CM	CR2016	—	Coin Cell	3	75	Clock/memory/watch	0.07"Dia. x 0.79"Th.	.40	.37	.29
240215CM	CR2025	—	Coin Cell	3	150	Clock/memory/watch	0.10"Dia. x 0.78"Th.	.29	.27	.26
11789CM	CR2325	6	Coin Cell	3	165	Clock/memory/watch	0.91"Dia. x 0.13"Th.	1.65	1.47	1.25
14162CM	CR2032	—	Coin Cell	3	180	Clock/memory/watch	0.79"Dia. x 0.13"Th.	1.25	1.12	.94
240231CM	CR2450	—	Coin Cell	3	500	Clock/memory/watch	0.18"Dia. x 0.97"Th.	\$1.09 .69	.65	.56
673635CM	CA1/2AA	—	1/2 AA	3	950	Barrel with leads	1.0"L x 0.58"Dia.	1.79	1.59	1.35
673601CM	NBL621/F9DE	—	Coincell	2	4	Vertical PC mount	0.27"Dia x 0.10"Thick	1.79	1.59	1.35
126754CM	TL5101S	8	Sub-AA	3.6	850	Macintosh®	0.95"L x 0.56"Dia.	6.95	6.29	5.65
240266CM	ER14250	9	Sub-AA	3.6	1000	Consumer tip	1.00"L x 0.55"Dia.	3.99	3.89	3.81
263898CM	ER14250	10	Sub-AA	3.6	1000	With axial leads	1.00"L x 0.55"Dia.	4.29	4.11	3.90
263978CM	ER14335	10	Sub-AA	3.6	1450	With axial leads	1.30"L x 0.55"Dia.	4.79	4.62	4.36
240282CM	ER14335	11	Sub-AA	3.6	1450	Consumer tip	1.30"L x 0.55"Dia.	3.99	3.63	3.30
263943CM	ER14505	12	AA	3.6	2100	With axial leads	2.00"L x 0.57"Dia.	5.35	4.99	4.70
240303CM	ER14505	13	AA	3.6	2400	Consumer tip	2.00"L x 0.55"Dia.	5.19	4.85	4.55
263935CM	ER14505	14	AA	3.6	2100	With solder tabs	2.00"L x 0.55"Dia.	4.99	4.75	4.52
240320CM	ER17335	15	Sub-A	3.6	1450	Consumer tip	1.30"L x 0.67"Dia.	4.49	4.05	3.01
264217CM	ER17335	—	Sub-A	3.6	1450	With axial leads	1.30"L x 0.67"Dia.	\$5.15 3.85	3.55	3.19
263986CM	ER26500	—	C	3.6	8500	With axial leads	2.00"L x 1.02"Dia.	12.95	12.29	11.59
240160CM	ER26500	16	C	3.6	8500	Consumer tip	2.00"L x 1.02"Dia.	11.95	11.50	11.05
263994CM	ER34615	—	D	3.6	16,500	With axial leads	2.40"L x 1.34"Dia.	15.35	13.85	12.45
240151CM	ER34615	17	D	3.6	16,500	Consumer tip	2.40"L x 1.34"Dia.	15.05	14.49	13.95
244646CM	UR18650H1	18	—	3.6	2200	Flat top lithium ion (rechargeable)	2.60"L x 0.71"Dia.	17.55	15.79	14.21

### NiCd – Rechargeable

Part No.	Cross Ref. No.	Fig.	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244662CM	AAA-240	19	AAA	1.2	240	Flat top	1.70"L x 0.40"Dia.	\$ .95	\$ .86	\$ .78
244540CM	AAA-240-CT	20	AAA	1.2	240	Consumer tip	1.70"L x 0.40"Dia.	1.79	1.65	1.45
244486CM	AA-600	23	AA	1.2	600	Flat top	1.90"L x 0.55"Dia.	1.15	1.05	.95
244507CM	AA-1000	23	AA	1.2	1000	Flat top	1.90"L x 0.55"Dia.	1.85	1.67	1.52
261657CM	AA-700-CT	24	AA	1.2	700	Consumer tip	1.90"L x 0.55"Dia.	1.37	1.25	.96
244515CM	AA-1000-CT	24	AA	1.2	1000	Consumer tip	1.90"L x 0.55"Dia.	2.65	2.43	2.33
244427CM	4/5A-1100	27	4/5A	1.2	1100	Flat top	1.70"L x 0.65"Dia.	1.40	1.33	1.28
244574CM	SC-1500	28	Sub-C	1.2	1500	Flat top	1.70"L x 0.89"Dia.	2.15	1.98	1.87
244654CM	SC-1900	28	Sub-C	1.2	1900	Flat top	1.70"L x 0.89"Dia.	3.69	3.23	3.08
244451CM	4/5SC-1250	—	4/5SC	1.2	1250	Flat top	1.30"L x 0.89"Dia.	3.15	2.82	2.59
244460CM	5/4SC-2300	—	5/4SC	1.2	2300	Flat top	1.90"L x 0.89"Dia.	3.25	2.92	2.66
244961CM	C-2500HT	30	C	1.2	2500	Flat top, high temperature	1.90"L x 1.00"Dia.	3.75	3.38	3.07
244531CM	C-2500-CT	31	C	1.2	2500	Consumer tip	1.90"L x 1.00"Dia.	4.65	4.19	3.77
244347CM	1/2D-2200	32	1/2 D	1.2	2200	Flat top	1.40"L x 1.30"Dia.	3.89	3.50	3.15
244566CM	2/3D-2800	—	2/3 D	1.2	2800	Flat top	1.70"L x 1.30"Dia.	3.85	3.48	3.17
244697CM	D-5000	30	D	1.2	5000	Flat top	2.40"L x 1.30"Dia.	5.79	5.25	4.78
244419CM	3/2D(F)-8000	33	F	1.2	8000	Flat top	3.45"L x 1.30"Dia.	\$12.15 11.49	10.45	9.48
126720CM	351FT	34	—	3.6	60	2-lead (pin), barrel	0.72"L x 0.61"Dia.	4.49	4.05	3.65
119116CM	3/V60R	35	—	3.6	60	3-lead (pin), barrel	0.72"L x 0.61"Dia.	3.75	3.39	3.05
101653CM	NA101-1	36	—	3.6	60	2-lead (eyelet), barrel	0.72"L x 0.61"Dia.	5.49	4.95	3.95

Blue Part No. = Limited Quantity Available



## NiMH Batteries



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

### NiMH – Rechargeable

**SALE**

Part No.	Cross Ref. No.	Figure	Size	Volts	mAh	Terminals/Connection	Dimensions	1	10	25
244582CM	2/3AAA-3000	1	2/3 AAA	1.2	300	Flat top	1.11"L x 0.40"Dia.	\$ .95	\$ .85	\$ .75
244785CM	5/4AAA-750	2	5/4 AAA	1.2	750	Flat top	2.00"L x 0.40"Dia.	2.29	2.11	2.05
261665CM	AAA-700FT	3	AAA	1.2	700	Flat top	1.70"L x 0.40"Dia.	2.25	1.99	1.91
244814CM	AA-1800	4	AA	1.2	1800	Flat top	1.90"L x 0.55"Dia.	2.19	1.99	1.79
244822CM	AA-1800-CT	5	AA	1.2	1800	Consumer tip	1.90"L x 0.55"Dia.	2.35	2.12	1.99
244831CM	4/3AA-1900	6	4/3 AA	1.2	1900	Flat top	2.60"L x 0.55"Dia.	5.05	4.56	4.15
244857CM	2/3A-1100	7	2/3 A	1.2	1100	Flat top	1.10"L x 0.65"Dia.	3.25	2.92	2.63
244970CM	A-2200	9	A	1.2	2200	Flat top	1.90"L x 0.65"Dia.	3.05	2.76	2.51
244890CM	SC-2900-HD	10	Sub-C	1.2	2900	Flat top, high discharge	1.70"L x 0.90"Dia.	6.49	6.04	5.89
244902CM	D-9000	11	D	1.2	9000	Flat top	2.40"L x 1.30"Dia.	14.15	12.85	11.66
244911CM	D-9000-CT	11	D	1.2	9000	Consumer tip	2.40"L x 1.30"Dia.	21.45	17.54	16.08
244620CM	9V-200	12	9V	9	200	Snaps	1.94"L x 0.65"Dia.	7.79	6.92	6.22

Blue Part No. = Limited Quantity Available

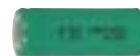


Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



### Green Laser Alignment Tool

- Finger-touch pressure switch
- 30x brighter than red laser
- Wavelength: 532nm • Distance: 2,000 yards
- Dot size: >1.75"Dia. @ 100 yards

Includes: 3V lithium battery



Part No.	Output Power	Size (L x Dia.)	1	10
421711CM	5mW max.	2.6" x 0.75"	\$199.95	\$179.95



### Stylus Laser Pointer

A multi-function laser that serves as a stylus pen for PDAs. Buttons for a flashlight or a laser pointer.

- 500 yard range for laser-pointer function
- Super bright white LED for flashlight • Brass body, satin silver color

Includes: 3 LR41 batteries



Part No.	Output Power	Size (L x Dia.)	1	10
421702CM	5mW max.	5.625" x .375"	\$24.95	\$22.46

### 60° Line Generating Lens

- Adjustable focus range: 50 cm to ∞
- Back focal length: 1.5mm
- Focal length: 8.0mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Length at 1 meter distance: 1.7 m

Class IIIa Laser Product



Part No.	Description	1	10	25
134148CM	60° lens	\$12.95	\$11.49	\$9.95

### Laser Diode Module

- Operates on 3VDC @ <5mW
- 650nm wavelength
- Beam diameter: 5 x 8mm
- Working distance: over 50 meters (daylight), 200 meters (dark)
- Size: 0.9"L x 0.3"Dia. • One-year warranty

Class IIIa Laser Product



Part No.	Description	Price
310519CM	Laser module, brass	\$44.95

### Laser Diode and Driver

#### 182932CM: Laser Diode

- Optical output power: ≤5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11° from center line max.

Class IIIa Laser Product



#### 161736CM: Laser driver w/ regulator

- Input voltage: 2.6-6VDC • Input current: 40mA

Part No.	Description	1	10	25
182932CM	650nm laser diode	\$14.95	\$13.45	\$12.15
161736CM	Laser driver	7.95	6.95	6.25

### 650nm Line and Dot Laser Diodes

#### 143845CM/173243CM:

- Focus adjustable w/ locking set screw
- Wattage: 5mW
- Operating voltage: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

Class IIIa Laser Product



#### 143845CM: Line laser module

- Laser line width: 1mm • Laser fan angle: 60°

#### 173243CM: Cross hair laser diode module

- Laser fan angle: 60° • Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

#### 143837CM: Module regulated power supply

- Output: 5VDC @ 100mA
- Short circuit protection
- Input voltage: 95-125VAC or 190-250VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H
- Weight: 0.6 lbs.



#### 143853CM: Laser module mount

- Built to hold laser diode on target
- X-Y tilt, θ movement
- Tightening screw for tilt adjustment

Part No.	Description	1	10
143845CM	Line laser diode module	\$114.95	\$103.95
173243CM	Cross hair laser diode mod	89.95	80.95
143837CM	Regulated power supply	19.95	17.95
143853CM	Laser diode module mount	49.95	39.95

### Green Laser Pointer



Even the sleepiest audience will sit up and salute when you whip out a laser pointer that's green, not red... and so bright, you could be standing nearly half a mile away. Using a wavelength closely matched to the highest sensitivity of the human eye and built with cutting-edge crystal technology, this laser projects a green beam so powerful you can see it against a clear sky at night. You won't believe how bright it is.

- Output wavelength: 532nm • Output power: <5mW
- 90-day manufacturer's warranty

Includes: Metal gift box, clip and 2 AAA batteries

Part No.	Description	Price
223731CM	Green laser pointer	\$152.25



### Laser Pointer Pens



153605CM



127749CM

- Range up to 500 yards • 670nm red laser

Includes: 2 AAA batteries

Class IIIa Laser Products

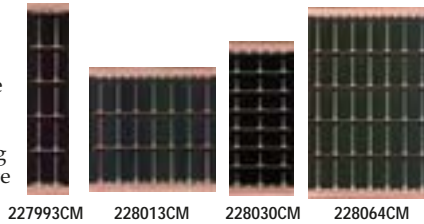
Part No.	Description	Size (L" x Dia")	1	10
153605CM	Black pen	5.2 x 0.4	\$19.95	\$17.95
127749CM	Silver brass	5.4 x 0.4	19.95	18.95

## Committed to You

We're committed to providing you with the best service in the industry.

**PowerFilm. Flexible Thin Film Solar Modules****Wireless Electronics Series**

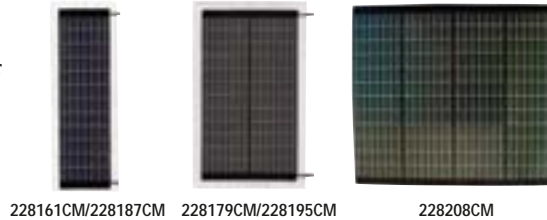
The Wireless Electronics Series offers a new opportunity to solve the old problem of limited power for wireless electronics in portable and remote applications. These modules are lightweight, paper thin, and durable. With their ultra-film profile, they are easily integrated with devices for solar recharging or direct powering. Specifically developed to recharge AA, AAA, plus 6 and 12 volt batteries.



Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
227985CM	SP3-37	3.0	22	2.5 x 1.5 x .01	64 x 37 x 0.2	\$3.89	\$3.49	\$3.19
227993CM	TX 3-25	3.0	25	4.5 x 1.0 x .01	114 x 25 x 0.2	2.89	2.45	1.99
171061CM	MP3-37	3.0	50	4.5 x 1.5 x .01	114 x 37 x 0.2	5.89	5.29	4.99
228013CM	MPT3.6-75	3.6	50	2.9 x 3.0 x .01	74 x 75 x 0.2	8.89	7.99	7.19
228030CM	SP4.2-37	4.2	22	3.3 x 1.5 x .01	84 x 37 x 0.2	5.89	5.29	4.79
228048CM	MPT4.8-75	4.8	50	3.7 x 3.0 x .01	97 x 75 x 0.2	11.89	10.69	9.59
228056CM	MPT4.8-150	4.8	100	3.7 x 5.9 x .01	94 x 150 x 0.2	22.89	20.59	18.49
228064CM	MPT6-75	6.0	50	4.5 x 3.0 x .01	114 x 75 x 0.2	13.89	12.49	11.29
228072CM	MPT6-150	6.0	100	4.5 x 5.9 x .01	114 x 150 x 0.2	23.75	21.25	19.12
228099CM	MP7.2-150	7.2	200	10.0 x 5.9 x .02	253 x 150 x 0.6	39.89	37.99	34.99
228101CM	MPT15-75	15.4	50	10.0 x 3.0 x .02	253 x 75 x 0.6	24.85	22.29	19.99
228110CM	MPT15-150	15.4	100	10.0 x 5.9 x .02	253 x 150 x 0.6	44.89	42.99	39.99

**WeatherPro Series**

The right choice for permanent outdoor applications that are directly exposed to the elements. These modules feature rugged construction, a UV-stabilized surface, an extra edge seal for weather protection, and tin-coated copper leads that extend from the module.



Part No.	Product No.	Operating Voltage (V)	Operating Current (mA)	Size (L x W x T)		Pricing		
				Inches	mm	1	10	100
228161CM	P7.2-75	7.2	100	10.3 x 3.9 x .04	270 x 100 x 1.1	\$39.89	\$36.99	\$33.99
228179CM	P7.2-150	7.2	200	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	54.99	49.99
228187CM	PT15-75	15.4	50	10.3 x 3.9 x .04	270 x 100 x 1.1	39.89	36.99	33.99
228195CM	PT15-150	15.4	100	10.3 x 6.9 x .04	270 x 175 x 1.1	59.89	56.99	52.99
228208CM	PT15-300	15.4	200	10.3 x 12.8 x .04	270 x 325 x 1.1	99.89	94.99	89.99

**Mini-Panel Solar Cells****Ready to Use! No Soldering**

Encapsulated mini-panels utilize solar cells similar to those that power our satellites in space, yet they are safe and simple to use. Mini-panels allow for handling without the normal breakage and cell damage associated with fragile solar cells. 6" red/black lead wires attached. Modules may be connected to create different outputs.

- Size: 3.8"L x 2.5"W
- Connection: lead
- Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	VDC @ mA	Size (L x W)	1	10
200205CM	SOL2	0.5 @ 800	2.6" x 3.7"	\$7.95	\$7.15
200221CM	SOL4	2.0 @ 200	3.0" x 3.7"	8.99	7.99
215319CM	4-3.0-100	3.0 @ 100	3.8" x 2.5"	14.29	12.89
215327CM	4-6.0-50	6.0 @ 50	3.8" x 2.5"	15.79	14.39



200221CM

**Panel Meters****0.6" High 3 1/2- & 4 1/2-Digit LCD Digital Panel Meters**

108388CM



175951CM



146835CM



123140CM

- Input ranges: 200mV, 20V, 200V, 500V
- Input impedance: >100MΩ
- Accuracy: ±0.5%
- Size: 2.7"W x 1.7"H
- Automatic polarity indication
- Supply voltage: 8-12VDC (recommend 9V battery P/N 151095CM, pg 251)

146835CM: Backlit display Includes: Bezel

Part No.	Cross Ref. No.	Digits	1	10	25
108388CM	PM-428	3 1/2 ..	\$12.95	\$11.95	\$10.95
175951CM	PM-128	3 1/2 ....	12.95	11.95	10.95
146835CM	PM-188BL	3 1/2 ....	19.95	17.99	16.19
123140CM	PM-328	4 1/2 ....	27.95	24.95	22.49

**veleman Analog Panel Meters**

- Includes mounting hardware
- Size: A: 2.4"W x 1.8"H x 1.3"D  
B: 2.8"W x 2.4"H x 1.4"D

316507CM: includes current shunt



316603CM



316523CM

Part No.	Product No.	Range	Size	1	4
316603CM	AVM6015	0 - 15VDC	A	\$9.29	\$7.85
316671CM	AVM7015	0 - 15VDC	B	8.79	7.49
316638CM	AVM6030	0 - 30VDC	A	8.79	7.49
316654CM	AVM7030	0 - 30VDC	B	8.79	7.49
316718CM	AVM60150	0 - 150VAC	A	8.79	7.49
316785CM	AVM60300	0 - 300VAC	A	8.79	7.49
315301CM	AIM60005	0 - 50μA	A	9.29	7.85
316523CM	AIM6050	0 - 50mA	A	8.79	7.49
316486CM	AIM60100	0 - 100mA	A	8.99	7.65
316558CM	AIM60500	0 - 500mA	A	8.99	7.65
316566CM	AIM60500	0 - 5A	A	8.79	7.49
316582CM	AIM705000	0 - 5A	B	8.79	7.49
316494CM	AIM6010A	0 - 10A	A	8.79	7.49
316507CM	AIM6030A	0 - 30A	A	8.79	7.49

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## Serial LCD Displays

• For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com). • One year warranty

**Scott Edwards Electronics, Inc.**

### Scott Edwards ILM-216L

• 16 x 2 characters • 2.8" x 1.0" display



150990CM

### Matrix Orbital LK162-12

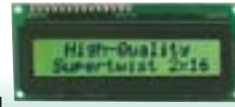
• 16 x 2 characters • 2.5" x 0.7" display



174166CM

### Scott Edwards BPI-216N

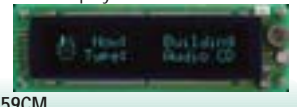
• 16 x 2 characters • 2.8" x 1.0" display



133129CM

### Matrix Orbital VK202-25

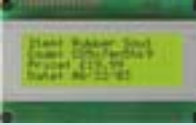
• 20 x 2 characters w/ keypad interface • 2.8" x 0.5" display



281359CM

### Matrix Orbital LCD2041

• 20 x 4 characters • 3.0" x 1.0" display



150957CM

### Matrix Orbital LK204-25

• 20 x 4 characters w/ keypad interface • 3.0" x 1.0" display



157323CM

### Matrix Orbital GLK12232-25-SM

• 20 x 4 characters with graphics • 2.4" x 0.7" display



281391CM

### Matrix Orbital GLK12232-25-WBL

• 20 x 4 characters with graphics • 3.3" x 1.4" display



281404CM

### Matrix Orbital VFD2041

• 20 x 4 characters • 3.0" x 1.0" display



303554CM

### Scott Edwards SGX-120L

• 20 x 4 characters with graphics • 2.6" x 1.1" display



158166CM

### Matrix Orbital VK204-25

• 20 x 4 characters • 2.8" x 0.8" display



281375CM

### Scott Edwards BPP-440L

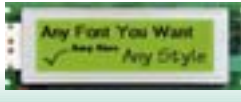
• 40 x 4 characters • 6.7" x 1.7" display



136485CM

### Matrix Orbital GLC24064

• 40 x 8 characters with graphics • 5.2" x 1.5" display



174182CM

### Matrix Orbital GLK24064-25

• 40 x 8 characters with graphics • 5.0" x 1.3" display



281412CM

**Recommended power supply  
(P/N 164101CM)  
for these LCD displays.  
See page 240.**



Part No.	Manufacturer	Product No.	Characters x Lines	Serial Input (bps)	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
										1	10	25
150990CM	Scott Edwards	ILM-216L	16 x 2	1200 - 9600	4.8V-5.5V @ 5mA	Y	1,2,5	3.2x2.0x0.5	2.8 x 1.0	\$48.95	\$44.09	\$39.99
174166CM	Matrix Orbital	LK162-12	16 x 2	1200 - 19,200	5.0V @ 9mA	Y	1,3,4,6	3.2x1.5x0.8	2.5 x 0.7	51.99	49.99	47.99
133129CM	Scott Edwards	BPI-216N	16 x 2	2400 or 9600	4.8V - 5.5V @ 3mA	N	1,2,11	3.1x1.4x0.7	2.8 x 1.0	59.95	53.99	48.99
281359CM	Matrix Orbital	VK202-25	20 x 2 w/keypad interface	1200 - 19,200	5.0V @ 130mA	Y	1,7,10	4.6x1.5x0.9	2.8 x 0.5	88.99	87.97	84.47
150957CM	Matrix Orbital	LCD2041	20 x 4	1200 - 19,200	5.0V @ 10mA	Y	1,3,4,6	3.9x2.4x0.7	3.0 x 1.0	57.99	55.99	55.50
157323CM	Matrix Orbital	LK204-25	20 x 4 w/keypad interface	1200 - 19,200	5.0V @ 16mA	Y	1,3,4,6	3.7x2.4x1.1	3.0 x 1.0	77.99	75.99	73.99
281391CM	Matrix Orbital	GLK12232-25-SM	20 x 4 w/graphics	9600 - 115,000	5.0V @ 250mA	Y	1,8	3.4x1.4x0.5	2.4 x 0.7	68.99	67.99	65.49
281404CM	Matrix Orbital	GLK12232-25-WBL	20 x 4 w/graphics	9600 - 115,000	5.0V @ 20mA	Y	1,8	3.9x2.4x0.4	3.3 x 1.4	74.99	73.99	71.19
303554CM	Matrix Orbital	VFD2041	20 x 4	1200 - 19,200	5.0V @ 20mA	Y	1,4,10	3.9x2.4x1.1	3.0 x 1.0	105.99	102.99	99.99
158166CM	Scott Edwards	SGX-120L	20 x 4 w/graphics	2400 or 9600	9V bat. or 5.0V@45mA	Y	1,2,5	3.1x1.9x0.8	2.6 x 1.1	119.95	107.99	103.00
281375CM	Matrix Orbital	VK204-25	20 x 4	1200 - 19,200	5.0V @ 220mA	Y	1,4,10	3.8x2.4x1.0	2.8 x 0.8	103.05	102.15	98.88
136485CM	Scott Edwards	BPP-440L	40 x 4	1200 - 9600	5.0V @ 10mA	Y	1,2,11	7.5x2.2x0.9	6.7 x 1.7	149.95	142.45	136.49
174182CM	Matrix Orbital	GLC24064	40 x 8 w/graphics	1200 - 19,200	5.0V @ 31mA	Y	1,3,6	7.1x2.6x0.7	5.2 x 1.5	165.99	161.69	157.49
281412CM	Matrix Orbital	GLK24064-25	40 x 8 w/graphics	9600 - 115,000	5.0V @ 20mA	Y	1,9	7.1x2.6x1.1	5.0 x 1.3	192.99	192.00	183.30

\*1. For a power supply, Jameco recommends P/N 164101CM, pg 240.

2. Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included.)

3. Manual and software included

4. Connect 16 modules using the same two wire interface

5. EEPROM stores text font, settings, and text screen

6. Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature.

7. Connect 127 modules on the same 2-wire interface

8. 122 x 32 pixel graphics display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

9. 240 x 64 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting, and keypad interface

10. Built-in font provision for up to 8-user defined characters, software controlled brightness, use up to a

25-key keypad with one 10-key buffer, 6 general purpose outputs, horizontal or vertical bar graphs

11. LCD Serial Backpack\* accepts RS232, CMOS or TTL signal.



## VL 0.5" High 4-Digit Field Effect LCD Display

- Compatible with socket P/N 78641CM (2), pg 141
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Digital multimeters, thermometers, pressure gauges, timers, frequency counters, and clocks (12 or 24 hour format)

8.8.8.8



Part No.	Product No.	Size (W x H x D)	1	10	25
17110CM	402-DP-RC-S	2.0" x 1.2" x 0.1"	\$14.95	\$13.49	\$12.15

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

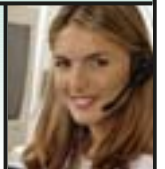
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## Parallel LCD Displays

- For detailed specification sheets, please visit [www.Jameco.com](http://www.Jameco.com).
- 90-day Jameco warranty

Quantity SAVE



### EPSON EA-D16015AR

- 16 x 1 characters
- 2.5 x 0.5" display



644025CM

### Ampire AC-162A

- 16 x 2 characters • 2.5" x 0.7" display



171715CM

### Hantronix HDM716216H-4-HOAF

- 16 x 2 characters • 3.3" x 0.9" display



658881CM

### Hantronix HDM716216H-B-P00P

- 16 x 2 characters • 2.4" x 0.6" display



658890CM

### Hantronix HDM716216L-7-8C0

- 16 x 2 characters • 3.9" x 0.9" display



658988CM

### PicVue PVC160206QYL04

- 16 x 2 characters • 2.4" x 0.6" display



365982CM

### Optrex DCM16204N-LR-B

- 16 x 2 characters • 3.9" x 0.9" display



320098CM

### Optrex DM16433

- 16 x 4 characters • 2.4" x 1.0" display



210761CM

### Samsung 9936

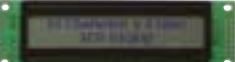
- 20 x 1 characters • 6.5" x 1.3" display



206615CM

### Hantronix HDM20216H-3-001P

- 20 x 2 characters • 3.3" x 0.7" display



658902CM

### Ampire AC-202A

- 20 x 2 characters • 3.3" x 0.7" display



171723CM

### Optrex DM20261ANB-2Y-20

- 20 x 2 characters • 3.3" x 0.7" display



320071CM

### Hantronix HDM20416H-300

- 20 x 4 characters • 3.7" x 0.6" display



658873CM

### Solomon LM1200SGR

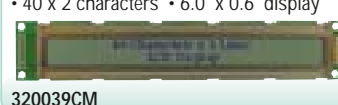
- 24 x 2 characters • 3.7" x 0.7" display



320101CM

### Solomon LM1030SGR

- 40 x 2 characters • 6.0" x 0.6" display



320039CM

### Ocular OM4021-WGS-01

- 40 x 2 characters • 6.0" x 0.6" display



277325CM

### Optrex 20-20191-2

- 40 x 2 characters • 5.8" x 0.5" display



215159CM

### Seiko Instruments DMC4024

- 40 x 4 characters • 5.5" x 0.9" display



652332CM

### Hantronix HDM64GS12L-4-N31S

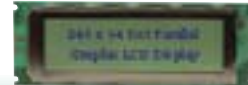
- 128 x 64 characters • 2.4" x 1.3" display



658953CM

### PicVue PVG240602A

- 240 x 64 pixels • 5.2" x 1.5" display

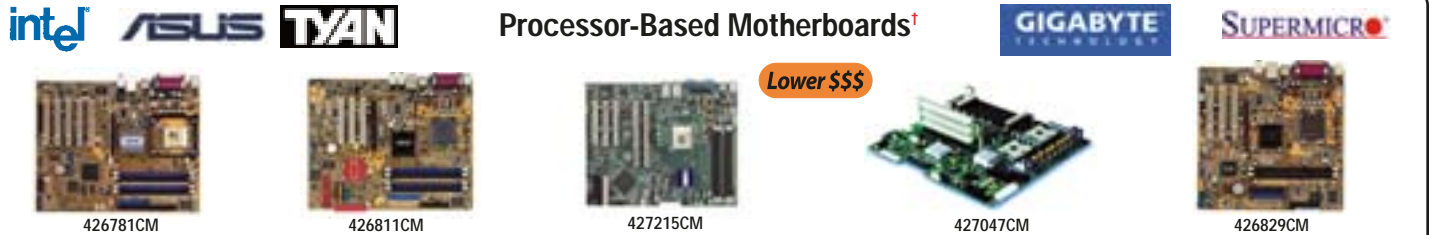


277350CM

Part No.	Manufacturer	Product No.	Characters x Lines	Character Font	Input Data	Input Voltage	Backlight	Notes*	Module Size (W"xH"xD")	Display Size (W"xH")	Pricing		
											1	10	25
644025CM	Epson	EA-D16015AR	16 x 1	5 x 7	8-bit	5.0V @ 1.0mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	\$9.95	\$8.49	\$7.95
171715CM	Ampire	AC-162A	16 x 2	5 x 8	8-bit	5.5V @ 1.5mA	Y	3, 5	3.4 x 1.2 x 0.5	2.5 x 0.7	13.99	13.35	12.65
658881CM	Hantronix	HDM716216H-4-HOAF	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	4.8 x 1.7 x 0.4	3.9 x 0.9	13.95	12.49	10.49
658890CM	Hantronix	HDM716216H-B-P00P	16 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	3.3 x 1.7 x 0.4	2.4 x 0.6	11.95	10.49	8.95
618003CM	Hantronix	HDM716216H-5-3005	16 x 2	5 x 7	8-bit	5.0V @ 1.25mA	N	—	3.2 x 1.4 x 0.3	2.5 x 0.5	11.39	9.25	8.33
658988CM	Hantronix	HDM716216L-7-8C0	16 x 2	5 x 7	8-bit	5.0V @ 2.0mA	Y	5	4.8 x 1.7 x 0.6	3.9 x 0.9	16.95	14.95	11.95
365982CM	PicVue	PVC160206QYL04	16 x 2	5 x 8	8-bit	5.0V @ 1.6mA	Y	—	3.3 x 1.2 x 0.5	2.4 x 0.63	12.69	10.79	9.45
320098CM	Optrex	DCM16204N-LR-B	16 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Y	5	3.2 x 1.6 x 0.6	2.4 x 0.6	14.55	13.00	11.30
210761CM	Optrex	DM16433	16 x 4	5 x 8	4-bit or 8-bit	6.5V @ 2.2mA	N	1, 5	3.4 x 2.4 x 0.3	2.4 x 1.0	22.95	19.95	18.69
206615CM	Samsung	9936	20 x 1	5 x 7	4-bit or 8-bit	5.5V @ 3.0mA	N	2	7.2 x 1.6 x 0.4	6.5 x 1.3	17.99	15.29	11.45
658902CM	Hantronix	HDM20216H-3-001P	20 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	4.6 x 1.5 x 0.4	3.3 x 0.7	18.95	15.95	14.49
658970CM	Hantronix	HDM20216L-1-G30F	20 x 2	5 x 7	8-bit	5.0V @ 2.4mA	Y	5	4.6 x 1.5 x 0.6	3.4 x 0.7	18.95	16.95	14.49
171723CM	Ampire	AC-202A	20 x 2	5 x 8	8-bit	5.0V @ 1.7mA	Y	3, 5	4.6 x 1.5 x 0.4	3.3 x 0.7	24.95	22.49	20.25
320071CM	Optrex	DM20261ANB-2Y-20	20 x 2	5 x 8	4-bit or 8-bit	5.0V @ 3.0mA	Y	5	4.6 x 1.5 x 0.6	3.3 x 0.7	19.89	17.89	15.59
658873CM	Hantronix	HDM20416H-300	20 x 4	5 x 7	8-bit	5.0V @ 2.2mA	N	5	3.9 x 2.7 x 0.4	3.7 x 0.6	24.95	22.49	18.95
658911CM	Hantronix	HDM24216L-2-E30P	24 x 2	5 x 7	8-bit	5.0V @ 1.4mA	Y	5	4.6 x 1.4 x 0.6	2.4 x 0.6	19.95	17.95	15.49
320101CM	Solomon	LM1200SGR	24 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	4.6 x 1.4 x 0.4	3.7 x 0.7	15.59	13.35	11.99
320039CM	Solomon	LM1030SGR	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	N	5	7.2 x 1.2 x 0.3	6.0 x 0.6	22.15	18.83	14.12
277325CM	Ocular	OM4021-WGS-01	40 x 2	5 x 8	8-bit	5.0V @ 2.5mA	Y	5	7.2 x 1.3 x 0.6	6.0 x 0.6	22.45	19.13	14.34
215159CM	Optrex	20-20191-2	40 x 2	5 x 8	8-bit	5.5V @ 5mA	Y	4	7.2 x 1.4 x 0.4	5.8 x 0.5	29.99	26.90	24.20
658831CM	Hantronix	HDM402162H-4-S90P	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	7.2 x 1.3 x 0.4	6.1 x 0.6	24.95	22.49	18.95
658929CM	Hantronix	HDM40216H-4-S9RP	40 x 2	5 x 7	8-bit	5.0V @ 2.2mA	N	5	7.2 x 1.3 x 0.4	6.1 x 0.6	24.95	22.49	18.95
658937CM	Hantronix	HDM40216L-4-LCWF	40 x 2	5 x 7	8-bit	5.0V @ 3.0mA	Y	5	7.2 x 1.3 x 0.6	6.1 x 0.6	32.95	29.49	24.95
652332CM	Seiko Inst.	DMC4024	40 x 4	5 x 8	8-bit	5.0V @ 12mA	N	—	7.5 x 2.1 x 0.4	5.5 x 0.9	39.95	34.95	28.95
658953CM	Hantronix	HDM64GS12L-4-N31S	128 x 64	128 x 64	8-bit	5.0V @ 2.0mA	Y	6	3.0 x 2.1 x 0.4	2.4 x 1.3	27.95	24.95	21.49
658785CM	Hantronix	HDM128GS12L-1-T30F	128 x 128	128 x 128	8-bit	5.0V @ 4.0mA	Y	6	2.9 x 2.8 x 0.5	1.9 x 1.9	45.95	41.95	36.95
277350CM	PicVue	PVG240602A	240 x 64 pixels	240 x 64	8-bit	5.0V @ 6.0mA	N	6	7.1 x 2.6 x 0.4	5.2 x 1.5	55.75	51.09	38.32

\*1. Control LSI HD44780 or equivalent and column driver MSM5259 or equivalent; 2. Built-in controller HD44780; 3. Controller KS0066U or equivalent; 4. Column driver: KS0063B;

5. For a power supply Jameco recommends P/N 164101CM, pg 240; 6. Dot Graphic LCD display



Jameco Part No.	Mfr.	Product No.	Board Style	Processor Support	FSB (MHz)	Chipset	On-Board Graphics	Memory Type	On-Board Audio	USB	HDD Support	On-Board LAN	Wt. (lbs.)	Warranty (Yrs.)	Pricing	
															1	10
426781CM	Asus	P4P800SE	ATX	P4/Cel	800	i865PE, iCH5R	No	DDR400/333/266	Yes	2	SATA	1000Mb	3	3	\$138.29	\$129.06
426811CM	Asus	P5GD1	ATX	P4/Cel	800/533	i915P, iCH6R	No	DDR400/333	Yes	2	SATA	1000Mb	3	3	156.85	146.40
427055CM	SuperMicro	P8SAA-0	ATX	P4/Cel	800/533	i925x	No	DDR2 533/400	Yes	2	SATA/EIDE	1000Mb	3	3	253.19	236.28
427215CM	Tyan	S5112G2NR	ATX	P4/Cel	800/533	IE7210	Yes	DDR400/333	No	2	SATA	1000Mb	3	3	333.95	311.66
426837CM	Asus	PC-DL	ATX	Dual Xeon	533	i875P	No	DDR333	Yes	2	SATA	1000Mb	3	3	287.35	268.18
427047CM	Intel	SE7520JR2SCSID1	ATX	Dual Xeon	800	IE7520	Yes	DDR333/266	No	2	SATA	1000Mb	3	3	782.65	733.65
427080CM	SuperMicro	X6DAE-G2-0	ATX	Dual Xeon	800	IE7525	No	DDR2 400	Yes	2	SATA/EIDE	1000Mb	3	3	628.95	587.05
426829CM	Asus	P5S800-VM	µATX	P4	800/533	SIS 661FX, 964	No	DDR400/333/266	Yes	2	SATA	1000Mb	2.7	3	86.15	80.45
345172CM	Giga-Byte	GA-8I915G-MF	µATX	P4	800/533/400	i915G/iCH6	Yes	DDR400/333	Yes	2	SATA	1000Mb	3.8	3	127.65	124.99
427039CM	Intel	SE7520BD2V	SSI	Dual Xeon	800	IE7520	Yes	DDR333/266	No	2	SATA	1000Mb	—	3	672.45	627.62

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

† For complete specs see [www.Jameco.com](http://www.Jameco.com)

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**Quantity SAVE**

## CPU Heat Sinks and Fans\*

**SALE**

Part No.	Description	Size (H" x W" x D")	Approvals	1	10
206244CM	Heat sink w/ dual fan slot (SECC 2)	5.25 x 1.95 x 1.30	CE	\$12.95	\$9.71
319951CM	Heat sink w/ fan for PIII slot 1	2.00 x 4.90 x 8.50	—	9.85	8.85
181278CM	Heat sink w/ fan for socket 7 (ATX) Ⓢ	2.12 x 2.05 x 1.67	UL/CE/CSA	8.49	6.37
661087CM	Heat sink w/ fan for socket 370	1.55 x 2.36 x 2.44	UL/CSA/TUV/CE	13.55	12.19
190545CM	Heat sink w/ fan for socket 370 Ⓢ	2.45 x 2.42 x 2.10	—	13.55	12.19
645482CM	Heat sink w/ fan for socket 370	2.04 x 2.04 x 1.06	UL/CE	10.95	9.49
319185CM	Heat sink w/ fan for socket 7 & 370	1.38 x 2.36 x 2.59	—	7.65	7.25
129226CM	Heat sink for 486 CPU – adhesive back Ⓢ	1.70 x 1.63 x 0.36	—	2.95	2.65
174115CM	Heat sink w/ fan for 486 CPU w/ snap†	1.93 x 1.96 x 0.93	UL/CU	3.95	2.96
684748CM	Heat sink w/ fan for socket 7 (AT/ATX)	1.00 x 2.60 x 2.30	CSA/TUV	8.99	8.59
308742CM	Heat sink w/ fan for 586 CPU w/ snap†	0.73 x 2.05 x 1.94	—	10.25	9.25

† 14" lead wires \* See website for photos

## Mounting Kits

Designed to mount most 3.5" media devices into standard 5.25" half height bays.

Part No.	Cross Ref. No.	Description	Wt. (lbs.)	1	10	25
180857CM	HDB35 Ⓢ	3.5" hard drive mount kit (short)	0.2	\$3.35	\$2.95	\$2.21
32088CM	SMK	3.5" to 5.25" mounting kit (beige faceplate)	0.5	5.89	5.29	4.79

## Thermoelectric Cooler Chips

- Cools down to -30°C (dependent on external temp.)
- Heat or cool by changing direction of current
- 20 AWG wire leads, 4" long • Temperature = 60°C max.

Part No.	Cross Ref. No.	Volts	Watts	Current	Couples*	Size (LxWxT)	1	10
172030CM	TEC30 Ⓢ	8.4VDC max.	19.7	4A max.	71	1.2" x 1.2" x 0.2"	\$19.95	\$17.95
172048CM	TEC40 Ⓢ	15.4VDC max.	35.6	4A max.	127	1.6" x 1.6" x 0.2"	25.95	22.95
172056CM	TEC50 Ⓢ	15.4VDC max.	79.1	8A max.	127	2.0" x 2.0" x 0.2"	33.75	29.35

\*Couples: # of P&N type semiconductor pairs connected electrically in series

## AMD Processors & Coolers

### AMD CPUs

- Available in the Athlon, Sempron, Opteron

- Speed ranges from 650MHz to 2.6GHz

### Foxconn CPU Coolers

- For AMD Athlon and Opteron CPUs

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete CPU & Cooler Offering at [www.Jameco.com/Prod/AMDCPU](http://www.Jameco.com/Prod/AMDCPU)

## 1.44MB 3.5" Internal Floppy Disk Drives

- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Size: 4.0"W x 5.9"D x 1.0"H
- Weight: 1.4 lbs.

♣ Pull = Extra Savings

Part No.	Product No.	Mfr.	Color	1	10
115490CM	FD235	TEAC	Beige	\$19.95	\$17.95
189165CM	— ♣	Varies	Beige	9.35	7.01
249367CM	MPF920-Z	Sony	Beige	16.95	15.99
453704CM	FD235HF ♣	TEAC	Black	58.95	55.81
661108CM	D359M3D	Mitsumi	Black	20.95	18.95

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Floppy Drives

- 3.5" • 1.44MB
- Beige and black available
- Mitsumi, Teac and Sony Drives are available
- Also available: Floppy drive mounting kits

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Floppy Drive Offering at [www.Jameco.com/Prod/FloppyDrives](http://www.Jameco.com/Prod/FloppyDrives)

## Order Anytime, Day or Night

Our friendly sales department will take your order 24x7x365 by phone, fax, web or email.



## Boxed Processors

## Embedded Processors

Blue Part No. = Limited Quantity Available

Part No.	Product Name	Product No.	Speed (MHz)	FSB (MHz)	Cache (kB)	Package	1	10
344241CM	Pentium	A8050266166	166	66	—	SPGA	\$79.45	\$62.69
344276CM	Pentium MMX	FV80503CSM66166	166	66	—	PPGA-296	<del>\$77.99</del> 66.25	52.30
344268CM	Pentium MMX	FV80503CSM66266	266	66	—	PPGA-296	72.75	64.00
344313CM	Pentium II	KC80524KX266256	266	66	256	BGA1	<del>\$103.45</del> 87.95	90.89
344284CM	Pentium II	KC80524KX333256	333	66	256	BGA1	<del>\$103.45</del> 87.95	77.25
344452CM	Pentium III	KC80526LY400256	400	100	256	BGA2	117.55	103.29
344444CM	Pentium III	KC80526LY500256	500	100	256	BGA2	133.25	117.09
344401CM	Pentium III	RB80526PY600256	600	100	256	FC-PGA	117.55	103.29
344436CM	Pentium III	KC80526GY850256	850	100	256	BGA2	107.39	100.95
344428CM	Pentium III	RB80526PY700256	700	100	256	FC-PGA	117.55	103.29
344410CM	Pentium III	RB80526PZ001256	1000	133	256	FC-PGA	125.45	110.20
344575CM	Pentium III	RK80530KZ012512	1250	133	512	FC-PGA2	230.19	218.69
344516CM	Pentium 4	RK80532PC041512	2000	400	512	mPGA-478	238.79	224.45
344559CM	Pentium 4	RK80532PE056512	2400	533	512	mPGA-478	183.99	181.55
344305CM	Celeron	FV80524RX300128	300	66	128	PGA-370	84.49	66.69
344348CM	Celeron	KC80526LY400128	400	100	128	BGA2	81.25	64.15
344330CM	Celeron	FV80524RX433128	433	66	128	PPGA	73.35	64.45
344399CM	Celeron	RB80526RX733128	733	66	256	FC-PGA	<del>\$72.19</del> 61.35	55.95
344381CM	Celeron	RB80526RY850128	850	100	128	FC-PGA	<del>\$72.19</del> 61.35	55.95
344356CM	Celeron	RK80530RY009256	1200	100	256	FC-PGA2	78.39	68.89
344461CM	Celeron	RK80532RC041128	2000	400	128	mPGA-478	94.05	91.79
344479CM	Celeron	RK80532RC060128	2500	400	128	mPGA-478	117.55	103.29

## Legacy Memory Modules

Part No.	Cross Ref. No.	Capacity	Description	Config.	Pins	1	10
148419CM	16MBX64SDRAM	128MB	10ns Syn. DRAM DIMM	16M x 64	168	\$65.95	\$59.95
148401CM	8MBX64SDRAM	64MB	10ns Syn. DRAM DIMM	8M x 64	168	<del>\$28.95</del> 22.75	20.68
148451CM	JED07264	64MB	60ns SIMM EDO	16M x 32	72	30.95	28.95
148398CM	4MBX64SDRAM	32MB	10ns Syn. DRAM DIMM	4M x 64	168	16.95	16.45
148460CM	8MBX36-60	32MB	60ns SIMM	8M x 36	72	40.95	<del>(30.71)</del>
148443CM	JED07232	32MB	60ns SIMM EDO	8M x 32	72	43.95	39.95
75184CM	P364000-XX-6	16MB	60ns SIMM	4M x 36	72	<del>\$21.95</del> 20.75	18.85
130711CM	JED07216	16MB	60ns SIMM EDO	4M x 32	72	<del>\$12.95</del> 11.59	10.55
75096CM	P362000-XX-6	8MB	60ns SIMM	2M x 36	72	<del>\$21.95</del> 18.65	16.95
130729CM	JED07208	8MB	60ns SIMM EDO	2M x 32	72	<del>\$7.95</del> 3.95	3.58
285667CM	HB56U232	8MB	70ns SIMM	2M x 36	72	8.95	6.95
75133CM	P361000-XX-6	4MB	60ns SIMM	1M x 36	72	<del>\$11.05</del> 9.95	9.15
41751CM	421000A9B-70	1MB	70ns SIMM	1M x 9	30	4.95	3.95



## Kingston Memory Modules

Part No.	Product No.	Capacity	Description	Config.	Pins	1	10
639541CM	KVR533D2N4/1G	1GB	DDR2-533	128M x 64	240	\$129.95	\$126.95
639533CM	KVR533D2N4/512	512MB	DDR2-533	64M x 64	240	75.95	68.95
639525CM	KVR533D2N4/256	256MB	DDR2-533	32M x 64	240	42.95	39.95
639470CM	KVR333X64SC25/512	512MB	DDR333	64M x 64	200	76.95	74.95
639437CM	KVR333X64SC25/256	256MB	DDR333	32M x 64	200	39.95	35.95
639429CM	KVR266X64SC25/256	256MB	DDR266	32M x 64	200	39.95	35.95
639373CM	KVR133X64SC3/512	512MB	PC133	64M x 64	144	125.95	123.95
639285CM	KVR133X64SC3/256	256MB	PC133	32M x 64	144	52.95	50.95
639293CM	KVR100X64SC2/256	256MB	PC100	32M x 64	144	117.95	115.95
639200CM	KVR100X64SC2/128	128MB	PC100	16M x 64	144	39.95	35.95
639146CM	KVR100X64SC2/64	64MB	PC100	8M x 64	144	22.95	20.95

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## 2.5" and 3.5" Hard Drives

Hitachi Travelstar &amp; Deskstar 20GB to 400GB

Seagate Cheetah &amp; Barracuda 36GB to 400GB

Maxtor DiamondMax 80GB to 250GB

Fujitsu 20GB to 100GB Toshiba 20GB to 80GB

Also available Seagate TapeStor and Data Cartridges

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See Our Complete Drive Offering at [www.Jameco.com/Prod/HardDrives](http://www.Jameco.com/Prod/HardDrives)



## Hard Disk Drives

Lower \$\$\$



## 3.5" LP UATA/100 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319484CM	WD800JB	80GB	UATA/100	7200	8.9	8	3 yrs	\$83.45	\$79.30

## 2.5" LP EIDE/100 Disk Drives

Part No.	Product No.	Capacity	Interface	RPM	Seek (ms)	Cache (MB)	Mfr. Warranty	1	5
319716CM	WD800UE	80GB	EIDE/100	5400	12	2	1 yr	<del>\$100.25</del> \$133.35	\$125.25

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

To Find Additional Hard Drives, Visit [www.Jameco.com/Prod/WesternDigital](http://www.Jameco.com/Prod/WesternDigital)

## Legacy 3.5" Hard Disk Drives\*

Part No.	Capacity	Description	Warranty	1	10
151044CM	4.3GB	EIDE/Ultra DMA33	1 year	\$49.95	\$45.95
146333CM	2.5GB	EIDE/FAST ATA-2	1 year	33.29	29.95
124978CM	1.27GB	IDE	1 year	29.95	26.95
118949CM	850MB	IDE	1 year	49.95	47.45
115764CM	425MB	IDE	3 mos.	45.95	43.65

\* Manufacturers may vary & capacity may exceed specification ♣ Pull = Extra Savings

## Legacy Intel® Desktop Processors

Part No.	Description	Speed (MHz)	Package	1	10
311204CM	Intel Celeron® processor	800	FCPGA-370	<del>\$84.95</del> 84.95	\$80.70
311212CM	Intel Celeron® processor	566	FCPGA-370	47.79	45.39
183118CM	Intel Pentium® III processor	600	Slot 1	99.95	96.43
183100CM	Intel Pentium® II processor	400	Slot 1	<del>\$95.99</del> 51.39	46.70
151651CM	Intel Pentium® II processor	300	Slot 1	89.95	85.45
190060CM	Intel Pentium® II w/ heat sink	233	Slot 1	89.95	<del>(67.46)</del>
150501CM	Intel Pentium MMX® processor	233	376/PGA	69.95	62.95
140054CM	Intel Pentium MMX® processor	200	376/PGA	<del>\$49.95</del> 24.55	22.32
130841CM	Intel Pentium® processor	166	296/PGA	<del>\$56.95</del> 28.05	25.48
130833CM	Intel Pentium® processor	133	296/PGA	39.95	35.95
118421CM	Intel 486DX2 processor	66	168/PGA	19.95	16.96

♣ Pull = Extra Savings

## Pocket PC Reference Book

**Sequoia Publishing** Pocket PCRef 13th edition includes troubleshooting tools, wiring diagrams, connectors and pin outs, commands for WinXP and UNIX, CDROM drive configuration data, hard drive specifications, PC hardware, ASCII numbers, CPU processor specifications and more. (1088 pages, 2004)



Part No.	Description	Size	Wt. (lbs)	Price
355231CM	Pocket PCRef	4" x 6"	.87	\$15.15

## Parallel Port Complete

**Lakeview Research** Hands-on approach to PCs and their connections to parallel ports. This book offers many tips on how to get the most out of your parallel port. Enhanced (EPP) and extended capabilities (ECP) types are covered. (343 pages, 1999) Includes: 3.5" diskette

• Windows® 3.1/95 • Selecting cables • PC to PC links

Part No.	Description	Size	Wt. (lbs)	Price
138261CM	Parallel Port Complete	7.0" x 10"	1.4	\$32.89



## Serial Port Complete

**Lakeview Research** Provides you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages, 1998)

Includes: 3.5" diskette

Part No.	Description	Size	Wt. (lbs)	Price
154771CM	Serial Port Complete	7.0" x 10"	1.4	\$39.95







## ZIP Drives

- iomega 250MB and 750MB internal drives available
- White and black available
- 250MB disks



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See Our Complete ZIP Drive Offering at  
[www.Jameco.com/Prod/ZIPDrives](http://www.Jameco.com/Prod/ZIPDrives)

## Internal Optical Drives

- 5.25" half-height design
- One-year warranty
- Manufacturer varies



**SALE**

Includes: Audio cable  
**CD-ROM**

Part No.	Speed	Buffer	kB/sec.	1	10
345009CM	52x	128kB	7800	\$25.35	\$24.09
189448CM	56x	128kB	8400	29.95	28.45

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Find Additional Products In This Series at  
[www.Jameco.com/Prod/OpticalDrives](http://www.Jameco.com/Prod/OpticalDrives)

## Internal Optical Drives

QSI, Sony, BenQ, LiteOn, Teac, AOpen, LG, NuTech and Pioneer

### CD-R

- Speeds up to 52x

### CD-RW

- Speeds up to 52x32x52

### CD-RW +DVD

- Speeds up to 52x32x52 +16

### DVD-ROM

- Speeds up to 16x

### DVD-RW

- Speeds up to 24x

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See Our Complete Internal Optical Drives Offering at  
[www.Jameco.com/Prod/OpticalDrives](http://www.Jameco.com/Prod/OpticalDrives)

## CD Accessories



249447CM



172179CM



208514CM

Part No.	Description	1	5	10
249447CM	48x/700MB/80 min./100 pk.	\$31.95	\$30.50	\$28.95
172179CM	Single jewel case	\$49.21	.15	.14
208514CM	Paper envelope 25 pk.	2.49	2.25	1.99

## Hard Drive Enclosures

- USB 2.0 & 1.1 compatible
- Plug & play
- Hard drive and CD-ROM



Bytecc 2.5" and 3.5"

Coolmax 2.5", 3.5" & 5.25"

Zynet 3.5" and 5.25"

Vantec 2.5" and 3.5"

Kingbyte 2.5"



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Hard Drive Enclosure Offering at  
[www.Jameco.com/Prod/HDCases](http://www.Jameco.com/Prod/HDCases)

## Removable IDE HDD Enclosures For 3.5" Drive Bay

- For quick drive swapping
- Power LEDs
- Keylock for security



196040CM:

- Size: 5.8"W x 8.5"D x 1.5"H
- Weight: 1.2 lbs.

196031CM:

- Size: 4.1"W x 7.5"D x 1.6"H
- Weight: 0.8 lbs.

319775CM:

- Size: 5.8"W x 8.9"D x 1.6"H
- Weight: 1.32 lbs.

**SALE**

Includes: Inner cable with IDE connector

Part No.	Description	1	10	25
196040CM	IDE encl. w/ insert	\$25.15	\$18.85	\$14.65
319775CM	IDE encl. w/ insert	15.55	14.79	11.09
196031CM	Insert for 196040CM	19.95	16.96	12.72

## Removable IDE HDD Enclosure For 5.25" Drive Bay

- Supports DMA 66 hard drive
- Retaining lock mechanism
- 12VDC @ 50mA fan
- CFM rating: 5.6
- Size: 5.9"W x 8.7"D x 1.6"H
- Weight: 1.3 lbs.

**SALE**



Includes: Mounting hardware

Part No.	Description	1	10	25
170608CM	Enclosure kit (IDE)	\$18.09	\$16.43	\$14.93

## CD-ROM Audio Cables



127546CM



168612CM

Part No.	Connection from Sound Blaster to	Length	1	10	50
127546CM	Sony/MPC2	18"	\$2.95	\$2.65	\$2.29
168612CM	Universal	18"	4.95	4.46	3.35

## External IDE HDD Enclosure with Parallel Interface

An external HDD enclosure for IDE hard drives with a parallel port interface to be connected to a PC or laptop.



No drivers needed. Windows® 98 and above will automatically detect hard disk drive.

- Parallel port interface
- Built-in fan and 110V power supply

Includes: Parallel cable and power cord

Part No	Description	1	5
249316CM	HDD external enclosure	\$17.95	\$16.16

## 5.25" Screwless HDD/CD-ROM Enclosure

- Screwless design
- Ultra-light plastic body
- Audio jack for CD-ROM analog audio output
- Power-on and read/write LED indicators
- IDE interface supports ATA, PIO, ATAPI, DMA, and UDMA devices
- Supports Windows® 98/98SE/ME/2000/XP
- Size: 9.8"L x 6.5"W x 2.3"H



Includes: USB 2.0 cable, base, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344751CM	SD-U2DEL-525	\$44.89	\$42.65

## 5.25" Stackable CD/DVD/Hard Drive Enclosure

This 5.25" enclosure is designed to provide a solution in connecting existing storage devices such as 3.5" hard drives, MO drives, CDROM drives, and DVD drives to a USB 2.0 bus. An ideal interconnect for multimedia applications.



- Supports plug-n-play, hot-swap, and wake-up
- Peak data transfer rate of up to 480Mbps
- Accommodates all existing storage devices such as 3.5" IDE hard drives, MO drives, CD and DVD drives
- Compliant w/ USB specification Rev. 2.0
- ATA/ATAPI-6, LBA48, PIO Mode, DMA mode, and UDMA mode supported
- Light-weight plastic body
- Size: 10.1"L x 6.5"W x 2.5"H
- Weight: 2.4 lbs.

Includes: USB-A to USB-B cable, 12VDC @ 2.0A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344743CM	SY-UEN-5MYS-S	\$44.89	\$42.65

[www.Jameco.com](http://www.Jameco.com)



Committed to You

We're committed to providing you with the best service in the industry.

## 2.5" External USB Enclosure

- 2.5" external enclosure for 2.5" hard drives
- Transfer rate: 480Mbps (Ver. 2.0)
- Plug and play; hot-plug
- Compatible with Windows® 98/98SE/ME/2000/XP
- Bus powered through USB connector

**Includes:** USB cable with adapter and CD-ROM software drivers

Part No.	Description	1	10
354984CM	2.5" enclosure	\$26.45	\$25.10

**SALE**

## 3.5" Screwless Hard Drive Enclosure

- Screwless design
- USB 2.0 compliant
- IDE interface supports ATA, PIO, DMA, and UDMA hard drives
- Rugged aluminum body
- Plug and play, hot-swapping capability
- Power-on and read/write access LED indicators
- Size: 8.4"L x 4.7"W x 1.4"H

**Includes:** USB 2.0 cable, 12VDC @ 1.6A power supply and CD-ROM drivers

Part No.	Mfr. Part No.	1	5
344735CM	SD-U2PLA-35	\$31.45	\$29.89

## USB Thumb Drives

Thumb drives are compact and fit easily in your pocket or hang around your neck. Portable and lightweight, no external power needed. No drivers necessary for Windows® ME and above.

- 10 year data retention
- Size: 2.9"L x 0.7"W x 0.4"H
- Windows® 98/98SE drivers are available at [www.Jameco.com](http://www.Jameco.com)

Part No.	Description	1	10
217787CM	128MB	\$47.39	\$44.95
217795CM	512MB	99.99	89.99
687682CM	128MB	17.95	16.49
687738CM	128MB	15.95	13.95

## USB Flash Drives

## Kingston Data Traveler

- 64MB - 1GB

## LexarMedia Jump Drive

- 128MB - 512MB

## Memorex Travel Drive

- 512MB - 1GB

## M-Systems DiskOnKey

- 512MB

## SanDisk Cruzer

- 128MB - 2GB

## Apacer Handy Steno

- 256MB - 512MB with password security

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See Complete USB Flash Drives Offering at  
[www.Jameco.com/Prod/USBFlashDrives](http://www.Jameco.com/Prod/USBFlashDrives)

## Compact Flash Memory

Compact Flash cards are the most popular type of flash storage used in many electronic devices today. These removable, compact cards are ideal storage solutions for taking more pictures with your digital camera, listening to more music with your MP3 player, and increasing the productivity of your PDA, palmtop, or handheld PC.

- Type 1 • Read speed: up to 2MB/sec
- Write speed: up to 1.2MB/sec

Part No.	Size	1	10	25
344971CM	256 MB	\$31.69	\$30.15	\$28.59

▲ This products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Compact Flash Memory Cards

Lexar SanDisk TOSHIBA

- For use with digital cameras, MP3 players, and handheld PCs
- LexarMedia: 64MB to 1GB
- SanDisk: 64MB to 1GB
- - also CF Ultra II: 1GB to 4 GB
- Toshiba: 256MB to 2GB • Renesas: 512MB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Compact Flash Card Offering at  
[www.Jameco.com/Prod/CompactFlash](http://www.Jameco.com/Prod/CompactFlash)

## Multimedia/SD Flash Cards

SanDisk Kingston TOSHIBA

- For use in digital cameras, PCs, voice recorders, audio/video equipment, TVs, musical instruments, PDAs, mobile phones, automotive equipment, portable audio, and digital video cameras.
- SanDisk: 64MB to 1GB
- - also SD Ultra II: 512MB to 2GB
- Kingston: 256MB to 512MB
- Toshiba: 64MB to 1GB

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Multimedia/SD Card Offering at  
[www.Jameco.com/Prod/FlashMMCS](http://www.Jameco.com/Prod/FlashMMCS)

## Flash Card Adapters

Phison 5-in-1 PCMCIA adapter  
Phison 5-in-1 Compact Flash adapter

- Use with SmartMedia, Secure Digital, Multimedia, Memory Stick and Memory Stick PRO

## MediaGear xD-Picture to SmartMedia

- Windows® and Mac compatible

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Card Adapter Offering at  
[www.Jameco.com/Prod/FlashAdapters](http://www.Jameco.com/Prod/FlashAdapters)

## Flash Memory Cards

## xD Picture Card

- Recording media for digital cameras
- For use with Olympus and Fuji
- Fuji: 64MB to 256MB
- Olympus: 64MB to 512MB
- LexarMedia: 32MB to 128MB



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Flash Memory Card Offering at  
[www.Jameco.com/Prod/FlashMemoryCards](http://www.Jameco.com/Prod/FlashMemoryCards)

## Internal Flash Card Readers

MediaGear 3.5" Media Bay  
USB 9-in-1 flash reader/writer

- 4 memory card slots
- Compact Flash type I & II; Microdrive; Memory Stick; Memory Stick PRO; SmartMedia; Secure Digital; Multimedia card & Extreme Digital



## Soyo 3.5" BayOne XP 9-in-1 flash reader/writer

- Windows® compatible • Slot for next generation SD

## Soyo 5.25" BayOne Xtreme 9-in-1 reader/writer

- Detachable

## Soyo 3.5" BayOne DV 9-in-1 flash reader/writer

- Windows® compatible • USB and Firewire ports

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Flash Reader Offering at  
[www.Jameco.com/Prod/FlashReaders](http://www.Jameco.com/Prod/FlashReaders)

## Front Panel Access Port

Enjoy easy up front access to all your most used ports, including USB, IEEE 1394, audio, and serial ports, without moving the PC.

- 2 USB; 1 IEEE 1394; Line-In; Line-Out; RS-232 (9-pin male)



Tower not included

Part No.	Description	1	10
208004CM	Front panel port	\$34.95	\$32.45

## USB Complete

**Lakeview** (3rd Edition) Provides an easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (572 pages, 2005)

- Size: 7.0" x 9.0" • Weight: 1.9 lbs.



Part No.	Description	Price
171900CM	Complete USB Book	\$49.95

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242



## USB Card Reader

Easy to use, USB memory card reader is compact and very versatile. Supports all types of memory cards: compact flash types I and II, microdrives, both standard and reduced size multimedia cards, memory sticks, standard and mini secure digital cards, and smart media cards. USB 2.0 and 1.1 compliant, it supports transfer rates of up to 480Mbps and direct transfer between different types of memory cards.

- Supports hot-swap and wake-up
- Bus powered – no external power supply required
- LED indicators for power on and operation status of individual sockets
- Built-in USB-A cable

Part No.	Cross Ref. No.	1	10	25
344840CM	SD-U2CR	\$19.95	\$18.95	\$16.50

## USB Multimedia Card Reader

An easy way to upload photos, files, movies, and data from your multimedia flash memory card to your computer! Just drag and drop.

- USB-A male connector
- 1 expansion slot for multimedia card
- Compatible with PC's and MAC's

Part No.	Product No.	1	5	10
278125CM	SDDR-1201	\$4.19	\$3.79	\$3.44

## Universal USB Flash Card Reader/Writers



- Windows®/Mac compatible
- SanDisk ImageMate 12-in-1**
- CF type I&II; SD; miniSD; MMC; RS-MMC; MS; MS PRO; MS Duo; MS PRO Duo; SM; xD

### SanDisk MobileMate 4-in-1

- MS; MS PRO; MS Duo; MS PRO Duo

### Soyo MS-PC-8100 12-in-1

- 3-port hub
- CF type I&II; SD; miniSD\*; MMC; miniMMC; MS; MS PRO; MS Duo\*; SD; MMC; RS MMC\*; MiniSD

### Zynet CR-T11-U29 12-in-1

- CF type I&II; MD; SM; MS; MS PRO; MS Duo; MS PRO Duo\*; SD; MMC; RS MMC\*; MiniSD

### MediaGear MGTR-600 12-in-4

- CF type I&II; MD; SM; xD; MS; MS PRO; MS PRO Duo; MS Select; SD; miniSD; MMC

### MediaGear MGTR-300 8-in-4

- CF type I&II; MD; MS; MS PRO; SM; SD; MMC

### I-Rocks IR-5300 12-in-1

- Windows compatible only
- CF type I&II; MD; SM; MS; MS PRO; MS Duo\*; MS PRO Duo\*; SD; miniSD\*; MMC; miniMMC

### MagicStor with 2.2GB Hard Drive

- CF+ Type (ATA & PCMCIA compatible)

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. \*Requires adapter; see page 262.

See Our Complete Flash Card Reader Offering at  
[www.Jameco.com/Prod/FlashReaders](http://www.Jameco.com/Prod/FlashReaders)

## Standalone Flash Card Readers

### Vosonic XS-Drive II & MediaGear Flash-HD

- 6-in-1 portable storage
- Transfer photos or digital data from memory cards to internal hard drive using the LCD panel.
- CF type I&II; Microdrive; Memory Stick; Memory Stick PRO; SmartMedia; Secure Digital; Multimedia Card & xD
- Windows® and Mac compatible

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete Standalone Flash Reader Offering at  
[www.Jameco.com/Prod/StandaloneReaders](http://www.Jameco.com/Prod/StandaloneReaders)

## SmartBeam™ Infrared Adapter

Provides the simplest and fastest way to interface your PC or laptop with palmtops, organizers, and even printers. Using industry standard IrDA 1.0 technology, it can communicate with other devices that are IrDA up to 115.2kbps. Connect this device to a serial port and share files, printers, and even send email.

Includes: Software & DB9 M-to-DB25 F serial adapter

Part No.	Description	1	10
291821CM	Infrared adapter	\$22.05	\$19.75

## Mobile USB Fan

*This is so cool, you'll be its greatest fan!*

Take advantage of a great deal on this innovative personal USB-powered fan for laptop computing! You'll enjoy the added comfort of features like a flexible gooseneck mount, soft nylon blades and quiet motor.



Part No.	Description	Price
256461CM	Mobile USB fan	\$8.99

## Mobile USB Light

*Light up your laptop and work anytime, anywhere!*

Whenever and wherever you need light on your keyboard, this USB-powered, flexible, plug-and-play LED lamp will deliver. Discreetly illuminate your keyboard during presentations in darkened boardrooms, or work on the plane without disturbing others.



Part No.	Description	Price
256436CM	Mobile USB light	\$9.99

[www.Jameco.com](http://www.Jameco.com)

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily!

## Internal Serial ATA, ATA-133 & Floppy Drive Cables

**JAMECO**  
ValuePro



Flat ribbon cables block airflow within a computer system, but with the use of round internal cables, it will improve internal airflow in any computer system.

For additional drive cables see page 105. **SALE**

### Round Serial ATA cables

- Color: red
- 7-pin connector

Part No.	Description	Length	1	10	25
348710CM	90°	19.9"	\$4.19	\$3.70	\$3.52
348744CM	90°	39.4"	5.29	4.69	4.45
348728CM	180°	19.9"	4.19	3.70	3.52
348736CM	180°	39.4"	5.29	4.69	4.45

### Round ATA-133 cables

- Dual 40-pin ATA-133/IDE

Part No.	Color	Length	1	10	25
348752CM	Blue	18"	\$4.25	\$3.84	\$3.65
348761CM	Black	18"	4.25	3.84	3.65
348779CM	Blue	24"	4.89	4.60	4.38
348787CM	Black	24"	4.89	4.60	4.38

### Round Floppy Drive Cables

- 34-pin connectors

Part No.	Color	Length	1	10	25
348795CM	Blue	18"	\$5.95	\$5.95	\$5.19
348808CM	Black	18"	5.95	5.46	5.19
348816CM	Blue	24"	6.89	6.49	6.17

### Serial ATA Power Cable Extension

- 15-pin serial ATA power connector to 4-pin power connector

Part No.	Size	1	10	25
348841CM	6'L x 18 AWG	\$2.49	\$2.30	\$2.19

### IDE to Serial ATA Converter

- Converts 40-pin HDD connector to serial ATA connector

Includes: converter unit, power and serial ATA cables

Part No.	Description	1	10
348824CM	IDE to serial ATA	\$26.09	\$24.79

## Controlling the World with Your PC

### Hightext Publishing

Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. (257 pages, 1994)



Includes: 3.5" disk

Part No.	Description	Price
116943CM	Controlling the World with Your PC	\$43.85





344794CM



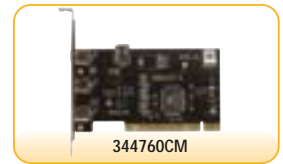
344815CM



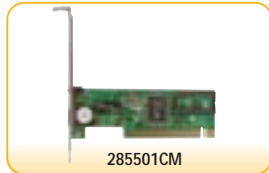
344778CM



215984CM



344760CM



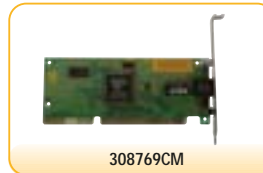
285501CM



285510CM



285528CM



308769CM



308646CM

## USB Interface Cards

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
344794CM	SYBA	SD-PCB-USB	PCMCIA	2	USB	32-bit cardbus Type II compliant, USB 2.0 compliant, data transfer rate of 480Mbps.	\$29.35	\$27.89
687658CM	—	IOC-3500	PCI	4 ext / 1 int	USB	32-bit, PCI, VT6202/6212 USB 2.0 Host controller chip, REV 1.1 compliant	14.95	14.19
344815CM	SYBA	SD-PCB-COM	PCMCIA	4	USB/Firewire	32-bit bus Type II slot, USB 2.0 and IEEE 1394a compliant, open HCI V1.0 and 1.1 compliant.	14.95	14.19
344778CM	SYBA	SY-VIA-5UB	PCI	4 ext / 1 int	USB	32-bit host interface, VT6212 (USB 2.0) host controller chip, USB 2.0 Rev 1.1 compliant.	13.55	12.86

## Firewire Interface Cards

215984CM	—	U02-00315	PCMCIA	2	IEEE-1394	32-bit bus, IEEE 1394 compliant, 400Mbps max., backward compatible, supports Windows* 98SE/ME/2000/XP and MAC OS 8.6 or above.	\$38.49	\$37.50
344760CM	SYBA	SY-VIA-4F	PCI	3 ext / 1 int	Firewire	VT3606 controller chip, 32-bit, IEEE 1394-1995 and 1394a compliant.	21.79	20.70

## Network Interface Cards

285501CM	—	RTL8139D	PCI	1	RJ-45	IEEE 802.3 and 802.3u compliant, auto detection of 10Mbps or 100Mbps, N-way 10/100 auto negotiation.	\$13.49	\$12.15
285510CM	—	905B	PCI	1	RJ-45	IEEE 802.3 and 802.3u, N-way 10/100 auto negotiation.	11.99	10.79
285528CM	—	GD82559	PCI	1	RJ-45	IEEE 802.2 and 802.3 compliant, 6kB cache on board, 10/100 auto negotiation, supports Windows* 95/98/2000/NT3.51/NT4.0.	11.99	8.99
308769CM	3-COM	3C509B-TPO	ISA	1	RJ-45	IEEE 802.3i (10Base-T) and IEEE 802.3 (10Mbps) compliant.	17.49	15.95
308646CM	COMPEX	RL200A-PnP	ISA	2	RJ-45/BNC	IEEE 802.3 (10Base-T) 10Mbps, supports NETWARE, LAN manager, Windows* 95/NT/Workgroups/OS2.	18.09	16.25
355039CM	GetOn	C130	PCMCIA		Wi-Fi	32-bit cardbus interface, IEEE 802.11b compliant, wireless data-rate (1Mbps to 11Mbps), supports Windows* 98/2000/ME/XP.	17.59	13.19

♣ Pull = Extra Saving

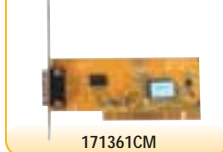
## Serial Interface Cards

171361CM	—	4025A	PCI	1	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, single 16C550.	\$38.95	\$35.95
171555CM	—	99378	ISA	2	DB9	16-byte FIFO, 921kb/sec transfer rate, IRQ 3/5/7/9/10/11/15 and address jumper configurable, dual 16C550 DB9 male.	24.95	21.85
132572CM	—	TC-400-550	ISA	4	DB9/DB25	16 or 32-byte FIFO, supports IRQ sharing, dual 16C550 DB9 male, dual 16C550, dual DB25 male.	50.95	45.85
172005CM	—	99467	PCI	2	DB9	32-byte FIFO, 921kb/sec transfer rate, supports IRQ sharing, dual 16C650 DB9 male.	48.45	43.65
171547CM	—	99468	PCI	4	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C550.	129.95	116.95
171660CM	—	99469	PCI	8	DB25	32-byte FIFO, standard RS-232 interface, 921kb/sec transfer rate, supports IRQ sharing 16C650.	179.95	134.95
344903CM	SYBA	SD-PCI-1S	PCI	2	DB9	32-bit PCI bus, dual DB-9 male, Nm9835CV chipset.	27.49	26.15

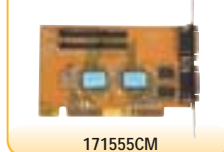
Quantity SAVE



355039CM



171361CM



171555CM



132572CM



172005CM



171547CM



171660CM



344903CM

## PCI-Bus Extender Card

- PCI bus
- Gold-plated fingers for long life

- Extends life of motherboard connectors
- Size: 5.9"L x 5.4"W

Part No.	Description	1	10
141381CM	PCI-bus extender card	\$74.95	\$67.49



## Interface Cards

## Adaptec Cards

- SCSI Cards
- SCSI RAID Cards
- Serial ATA RAID Cards

## HighPoint Cards

- ATA Host Adapter Cards
- ATA & SATA RAID Cards
- Print Server

## EdiMax PCI Cards

## MicroWise PCI Cards

## Broadcom RAIDCore™ Cards

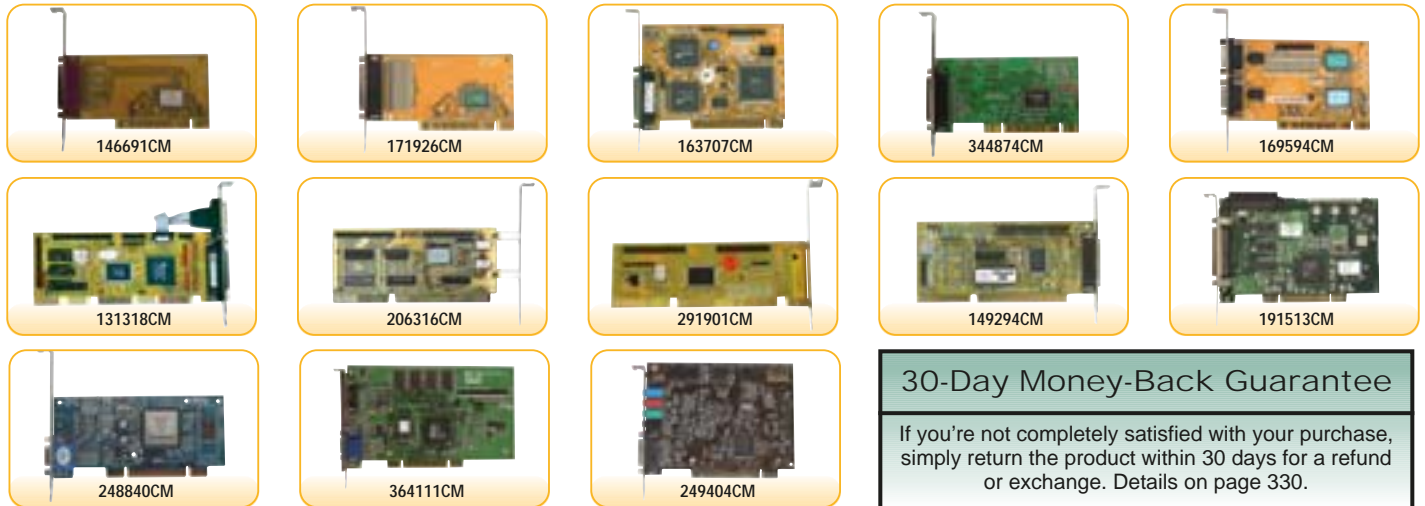
## Intel Serial ATA RAID Cards

## 3Ware Serial ATA RAID Cards

## Modem Cards

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Interface Card Offering  
at [www.Jameco.com/Prod/InterfaceCards](http://www.Jameco.com/Prod/InterfaceCards)



## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

### Parallel Interface Cards

**SALE**

Part No.	Manufacturer	Cross Ref. No.	Bus Type	Ports	Connectors	Product Description	1	10
146691CM	—	4006A	PCI	1	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported.	\$23.95	\$21.95
171926CM	—	4008A	PCI	1	DB25	32-byte FIFO, 2MB/sec transfer rate, supports ECP and EPP, supports IRQ sharing, DB25 female.	39.95	35.95
163707CM	—	4014A	PCI	2	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported.	25.59	23.25
344874CM	SYBA	SD-PCI-1P	PCI	1	DB25	32-bit PCI, single DB25 female, NETMOS Nm9805CV chipset, IEEE 1284 compliant.	23.59	22.45

### Serial and Parallel Interface Card

169594CM	—	4078A	PCI	—	DB25	BPP/SPP mode compliant, Windows® 95/98/NT4.0 drivers supported. Includes parallel DB25 female panel bracket assembly (single parallel / dual 16C550 serial).	\$56.95	\$54.09
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### Super I/O Controller Cards

131318CM	—	KW-557A	ISA	—	Mult.	Supports 2 IDE and 2 floppy drives, single parallel port, dual RS-232 (16550 UART).	\$29.95	\$26.95
206316CM	—	CA8390	ISA	—	Mult.	16-bit data transfer, supports 2 floppy drives (360k-1.44Mb), controls 2 AT BUS hard disk drives.	6.79	6.16
291901CM	—	MCT-IDEFH-2	ISA	—	Mult.	16-bit interface, supports 2 IDE hard drives up to 528MB and 2 floppy drives from 360kb to 1.44Mb, jumper selectable for enabling and disabling ports.	24.55	22.10
149294CM	—	CI-2020	ISA	—	50-pin F	DOS/Windows® /NT/95/OS2 Network/SCO UNIX, internal and external SCSI connectors.	33.99	29.99
191513CM	Adaptec	AHA-2940U2B	PCI	—	68-pin F Ultra SCSI2	AIC-7890AB chipset, Windows® 95/NT, Netware, OS/2 compatible, internal/external ULTRA II SCSI 68-pin connectors.	29.95	26.95

### Video Graphics Cards

248840CM	—	PS32985DR-8MB	PCI	—	HDDB15	Savage IX 8MB graphics accelerator, built-in direct draw accelerator and NTSC/PAL video encoder 4-bit resolution.	\$28.99	\$26.35
364111CM	ATI	109-54100-00	PCI	—	HDDB15	8MB graphics accelerator, Rage LT PRO AGP chipset, 7-pin TV-out and DFB connectors, Windows 98 and NT4.0 compatible.	29.99	28.49

### Sound Card

249404CM	Creative	CT4830	PCI	—	Multi	2-audio line-out (mini-stereo 3.5mm F), 1 microphone input (mini phono 3.5mm F), 1-audio line-in (mini-stereo 3.5mm F) and 1 game port (DB15F).	\$29.95	\$26.95
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Blue Part No. = Limited Quantity Available

### Additional Wireless and Optical Mice

- PS/2 and USB interfaces
- Ergonomic designs
- Programmable hot keys
- High-resolution sensors
- Scroll wheel
- Mini (notebook) styles

#### Available manufacturers:

BenQ  
 Acer  
 Logitech  
 Spec Research  
 Microsoft



These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Mice Offering at [www.Jameco.com/Prod/Mice](http://www.Jameco.com/Prod/Mice)

### Clip-on Mouse Pad

#### Organize and maximize your workstation.

Tired of trying to work without enough space? Free up your desk space with this convenient clip-on mouse platform. No drilling required—clamps on securely to your desk or workstation without damaging the desk. This unit also stores completely below your desk so you don't have to see it when it's not in use. Includes a cord clip to keep mouse cords tangle-free and in position.



Part No.	Description	Price
249105CM	Clip-on mouse pad	\$6.99

### USB Keyboard Adapter

- USB-A female to 6-pin mini DIN male (PS/2)



Part No.	Description	1	10	25
316831CM	USB-A to PS/2	\$1.79	\$1.59	\$1.39



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5



Fig.6



Fig.7



Fig.8



Fig.9



Fig.10



Fig.11



Fig.12



Fig.13



Fig.14

Part No.	Manufacturer	Product No.	Type	Interface	Description	Fig.	Size (L" x W" x H")	1	10	25
395612CM	IONE	LYNX-L7R	Optical	USB-PS/2	Mini optical mouse w/ retractable cable and USB-PS/2 adapter	1	3.9 x 2.3 x 1.5	\$29.95	\$26.95	\$24.25
486098CM	Microsoft	N72-00001 ♣	Optical	USB-PS/2	Wireless, 3-button with scroll and tilt wheel	2	—	37.55	37.14	36.77
486039CM	Spec Research	HS3003/U+P ♣	Optical	USB-PS/2	3-button with scroll	—	—	7.65	7.54	7.47
354976CM	—	C1-8B-2061-BB	Optical	USB-PS/2	3-button with optical wheel with USB to PS/2 adapter	3	4.2 x 2.1 x 1.6	11.29	10.75	10.19
486047CM	Spec Research	HM2002 ♣	Mech. Ball	USB-PS/2	3-button with scroll	—	—	2.99	2.97	2.94
685943CM	—	OW7751	Mech. Ball	USB	3-button with scroll; black	—	4.8 x 2.5 x 1.5	14.95	13.49	11.95
485714CM	Spec Research	HS3003/49P ♣	Optical	USB-PS/2	3-button with scroll	—	—	7.65	7.54	7.47
687746CM	Cherry	M-5000	Optical	USB-PS/2	3-button with scroll with PS/2 to USB adapter; black	—	4.6 x 2.6 x 1.5	18.95	16.95	15.25
486012CM	Microsoft	N64-0001 ♣	Optical	USB	2-button with scroll; silver	4	—	18.35	17.65	16.55
485861CM	Microsoft	P58-00006 ♣	Optical	USB	3-button with scroll; beige	5	—	11.15	11.00	10.90
265471CM	—	—	Optical	USB	Mini optical mouse	6	3.7 x 2.2 x 1.3	15.25	14.45	13.75
485917CM	BenQ	99.Q1888.UAP ♣	Optical	PS/2	3-button with scroll; glowing wheel; blue/silver	7	—	6.45	6.40	6.35
485941CM	BenQ	99.Q3188.P2U ♣	Optical	PS/2	3-button with scroll; for right or left hand users	8	4.7 x 2.5 x 1.5	7.15	7.00	6.95
265447CM	Memorex	32022378	Optical	PS/2	Wireless, 5-button optical ScrollPro w/ PS/2 to USB adapter	9	4.9 x 3.0 x 1.6	26.95	25.60	24.55
288972CM	Rolltek	K3P400A	Mech. Ball	PS/2	3-button PS/2	10	4.2 x 2.5 x 1.3	4.95	4.49	4.05
305082CM	IONE	Libra-90 ⊕	Trackball	PS/2	PS/2 trackball with USB adapter	11	5.6 x 4.7 x 1.9	29.95	26.95	24.25
485909CM	Microsoft	X08-70372/673-00431 ♣	Wheel	PS/2	3-button with scroll; beige	12	—	6.25	6.18	6.12
485706CM	—	HM2002/H2002 ♣	—	PS/2	3-button with scroll	—	—	3.35	3.28	3.25
283223CM	—	—	Mech. ball	DB9 female	3-button serial	13	4.3 x 2.6 x 1.6	6.15	5.23	3.92
121363CM	—	—	—	—	Mini mouse pad	—	7.0L x 5.5W	3.25	2.70	2.00
656907CM	—	FDM-G11	Trackball	PS/2	3-button off-table trackmouse; gray	—	3.0 x 2.0 x 2.0	16.95	15.95	13.49
657011CM	—	FDM-G11-USB	Trackball	USB	3-button off-table trackmouse; black	14	3.0 x 2.0 x 2.0	17.95	16.95	14.49

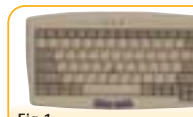


Fig.1

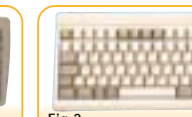


Fig.2



Fig.3



Fig.4



Fig.5

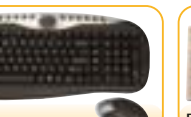


Fig.6



Fig.7



Fig.8



Fig.9



Fig.10





Fig.11



Fig.12

Part No.	Mfr.	Product No.	Interface	Description	Fig.	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
311183CM	—	HMB-631PUS	PS/2	84-key soft touch mini keyboard w/ track point mouse	1	12.3 x 6.0 x 1.2	—	\$41.85	\$39.75	\$37.75
114868CM	—	MCK-84SX	5-pin DIN	84-key tactile keyboard, Windows® 95 compatible	2	12.8 x 6.6 x 1.0	—	44.95	40.45	35.05
211756CM	—	WK-540	5-pin DIN	88/89-key soft touch keyboard w/ touchpad, Windows® compatible	3	11.4 x 8.5 x 1.2	2.3	59.95	53.95	48.95
191530CM	COMPAQ	1PRT235BT	PS/2	101-key tactile keyboard w/ separate cursor and numeric keys, 12 function keys (recommend adapter P/N 159089CM)	—	18.3 x 6.5 x 1.3	3.6	18.95	16.95	14.95
639550CM	IONE	Scorpius-2KB	PS/2	103-key soft touch keyboard, Windows® 98SE/2000/ME/XP compatible (black)	4	15.9 x 6.5 x 1.3	2.1	39.95	35.95	32.49
319661CM	IONE	Gemini-M1	PS/2	104-key soft touch wireless keyboard w/ 12 multimedia and function keys and 2-button optical scroll mouse. 5AA batteries included	5	17.6 x 7.5 x 1.6	2.2	25.65	24.30	18.23
173649CM	—	SUN 3201256-1	PS/2	104-key tactile keyboard w/ 12 function keys, separate arrow & numeric keys	6	18.2 x 7.0 x 1.5	2.7	12.95	11.01	8.26
128718CM	IONE	Scorpius 35PU/NET	PS/2	104-key tactile keyboard w/ built-in jumbo trackball. N-key rollover.	7	19.0 x 16.8 x 1.4	3.7	99.95	94.75	89.55
308101CM	Labtech	967360-0403	PS/2	104-key RF keyboard and 3-button optical scroll mouse, multimedia hot-keys	8	18.0 x 8.7 x 1.6	4.5	37.25	35.49	30.50
455603CM	—	KM-2501	PS/2	104-key soft touch w/ multimedia & 12 function keys	—	17.5 x 6 x 1.2	1.8	16.25	15.43	14.66
263521CM	—	RT3604	USB	104-key soft touch USB keyboard w/ 12 function keys, separate cursor and numeric keypad. Extra ports on side and rear	9	18.6 x 7.8 x 3.8	3.8	14.65	13.90	13.15
319812CM	PC Concepts	ICIA	PS/2	107-key soft-touch keyboard w/ programmable function keys for internet/utility/office, and multimedia. Software included	—	17.5 x 5.7 x 0.8	1.8	12.35	11.15	10.60
354950CM	COMPAQ	KB-9965	PS/2	107-key soft-touch keyboard w/ 12 function keys	—	18.5 x 6.5 x 1.4	1.3	17.99	15.29	11.47
485685CM	BenQ	X730 PRO ♣	USB, PS/2	104-key wireless keyboard w/ 13 hot-keys and 2-button optical scroll mouse	10	19.5 x 8.0 x 1.6	3.2	110.95	109.81	108.72
485749CM	KB Designer	KB-118W ♣	PS/2	104-key keyboard w/ 3 Windows® multimedia hot-keys; beige	—	—	—	4.55	4.51	4.47
485765CM	Acer	90.00029.858 ♣	PS/2	107-key keyboard w/ 3 Windows® hot-keys; beige	—	18.0 x 6.7 x 1.4	—	6.15	6.06	6.00
485773CM	Acer	90.00029.UB1 ♣	USB	107-key keyboard w/ 3 Windows® hot-keys; beige	—	—	—	22.85	22.62	22.40
681230CM	NMB	RT915CTW	PS/2	104-key tactile keyboard w/ 12 function keys w/built-in speakers	—	18.5 x 10 x 3.2	2.5	19.95	17.95	15.95
265375CM	ITRON	Scorpius-22RB ⊕	Serial	22-key serial tactile keypad w/ 2-key rollover and auto repeat function. Includes manual and drivers.	12	6.2 x 4.2 x 1.3	0.8	39.95	35.95	32.49
319054CM	—	KB22APB ⊕	PS/2	22-key PS/2 tactile keypad. Includes PS/2 to AT adapter.	12	—	—	33.69	31.99	30.39

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)





308814CM



## 150 to 400-Watt PC Power Supplies

**Quantity SAVE**

421657CM



196189CM



172822CM



### ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing		
										1	10	25
422001CM	Seasonic	SS-600HT Active PFC	600	+3.3/30, +5/30, +12/18, +12/18, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	\$145.05	\$133.40	\$126.20
422094CM	Seasonic	SS-500HT Active PFC	500	+3.3/30, +5/30, +12/17, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	5.0	125.05	115.00	108.80
421999CM	Seasonic	SS-460HS Active PFC	460	+3.3/30, +5/30, +12/16, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	4.3	95.05	87.40	82.70
308814CM	Powmax	LP6100D*	400	+3.3/28, +5/30, +12/25, -5/0.3, -12/0.8, +5VSB/2	115/230 @ 60 switchable	3-prong AC receptacle w/ 6' power cord	UL/CUL/TUV/CE	5.9 x 5.6 x 3.4	3.5	54.95	52.20	49.59
673379CM	Seasonic	SS-401HT Active PFC	400	+3.3/30, +5/30, +12/14, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	76.05	68.40	62.50
652607CM	Seasonic	SS-400HT-80 Active PFC	400	+3.3/30, +5/30, +12/14, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.5	99.05	91.10	86.10
673352CM	Seasonic	SS-350HS Active PFC	350	+3.3/22, +5/21, +12/10, +12/15, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	57.05	51.30	46.00
673361CM	Seasonic	SS-301HT Active PFC	300	+3.3/20, +5/20, +12/8, +12/14, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	46.05	41.40	37.25
652594CM	Seasonic	SS-300SFD-80 Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	3.9 x 4.9 x 3.0	2.5	66.05	60.70	57.00
427928CM	Seasonic	SS-300SFD Active PFC	300	+3.3/20, +5/20, +12/8, +12/14.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.1 x 4.9 x 2.5	2.7	51.05	46.90	44.40
673344CM	Seasonic	SS-300HS Active PFC	300	+3.3/20, +5/20, +12/8, +12/14, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	5.9 x 5.5 x 3.4	2.7	42.05	37.80	35.00
422123CM	Seasonic	SS-250SFD Active PFC	250	+3.3/18, +5/21, +12/16, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	3.9 x 4.9 x 3.0	2.7	42.05	38.60	36.50
319994CM	3Y Power Technology	AP-1250-1112	250	+3.3/20; +5/25; +12/12 +5VSB/3; -5/5; -12/0.5	100-240 @ 50-60 switching	3-prong AC receptacle (P/N 38050CM, pg 248)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.9	33.25	31.65	23.75
152194CM	American Media	JE2031	250	+3.3/14, +5/25, +12/10, +5VSB/1.5, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	UL/CSA/TUV	6.0 x 5.5 x 3.4	3.5	44.95	40.45	36.39
421657CM	Powertronic	PKI800T3*	200	+3.3/14, +5/22, +12/6, +5VSB/0.1, -5/5, -12/0.8	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CM, pg 248)	UL/CSA/TUV	6.0 x 5.6 x 3.3	3.3	15.95	14.49	11.95
196189CM	Emacs	MPW-6150F*	150	+3.3/6, +5/10, +12/6, +5VSB/0.72, -5/0.2, -12/1	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CM, pg 248)	UL/CUL/TUV/CE	7.5 x 4.0 x 1.6	2.5	34.95	29.71	22.28


### AT Power Supplies

233525CM	Sparkle Power	SPI-230G	230	+5/23, +12/9, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle (P/N 38050CM, pg 248)	UL/CSA/TUV	5.9 x 5.5 x 3.4	2.0	\$24.95	\$22.45	\$20.19
172822CM	Mean Well	AA-230*	200	+5/20, +12/8, -5/0.5, -12/0.5	115/230 @ 50-60 switchable	3-prong AC receptacle with 6' power cord	CSA/TUV/CE	6.0 x 4.6 x 3.4	2.6	49.95	44.96	40.46

### Rack Mount 1U/2U ATX Power Supplies

Part Number	Mfr.	Product Number	Power (W)	Output (VDC/A)	Input (VAC @ Hz)	Input Connector (Mating Connector/Cord)	Certification	Size (L" x W" x H")	Wt. (lbs.)	Pricing		
										1	10	25
673387CM	Seasonic	SS-600H2U Active PFC	600	+3.3/20, +5/25, +12/15, +12/15, +12/17, -12/0.8, +5VSB/3	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	10.7 x 3.9 x 2.7	2.7	\$169.05	\$152.10	\$136.95
422140CM	Seasonic	SS-520H1U Active PF	520	+3.3/20, +5/25, +12/14, +12/14, +12/15, -12/0.8, +5VSB/3	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	10.6 x 3.9 x 1.6	3.0	149.05	137.10	129.60
422060CM	Seasonic	SS-460H2U Active PF	460	+3.3/20, +5/21, +12/18, +12/18, -12/0.8, +5VSB/3	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	8.5 x 3.9 x 2.7	4.0	129.05	118.20	112.20
422043CM	Seasonic	SS-400H1U Active PFC	400	+3.3/20, +5/21, +12/16, +12/17, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	8.9 x 3.9 x 1.6	3.0	109.05	100.30	94.80
422019CM	Seasonic	SS-250E1U Active PF	250	+3.3/16, +5/12, +12/18, -5/0.5, -12/0.8, +5VSB/2	90-264@47-63 switching	3-prong AC receptacle	UL/CUL/TUV/CE	7.5 x 3.9 x 1.6	2.7	75.05	69.00	65.30

\* See photo above





### PC Power Supplies

#### PC & IPC Power Supplies

- Power range: 90W to 530W
- Input voltage: 90-265VAC, 115/230VAC or 90-264VAC
- ATX, ATX/SFX, Flex ATX, PS3, TFX, IU, EPS 1U, EPS 2U, 2U and Power Factor Correction types available

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

[See Our Complete Sparkle PC Power Supply Offering at www.Jameco.com/Prod/Sparkle](http://www.Jameco.com/Prod/Sparkle)

More Rackmount Power Supplies on Page 336

Save Big! Special Values!

New Lower Prices = Orange

Sale Priced Items = Yellow

Exceptional Quantity Discounts = Green



## Power Inverters

### 150-Watt DC-to-AC Inverter

- Input voltage: 10-15VDC
- Output voltage: 110VAC @ 60Hz
- Peak power surge capable
- Overload & thermal protection
- Battery low shutdown
- Weight: 1.3 lbs.
- Dimensions: 4.8"L x 2.9"W x 1.8"H



Part No.	Description	1	10	25
277181CM	150W auto plug	\$28.95	\$27.49	\$26.15


### 75 and 150 Watt DC-AC Inverters


- Optimum efficiency: 90%
- AC output frequency: 60Hz
- DC input voltage range: 10 - 15VDC
- Auto reset short circuit protection
- Overload protection/low battery alarm/low battery shutdown
- P/N 307811CM has a built-in thermal cooling fan



307791CM

Part No	Description	Peak Surge	AC Output	Dimension	Price
307791CM	75W inverter	200W	115VAC	4.8"L x 1.6"W x 2.4"H	\$26.95
307811CM	150W inverter	450W	110V ±5VAC	5.0"L x 1.9"W x 2.9"H	34.95

 RoHS compliant product

 This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)

# Power Protection

TRIPP-LITE

isobar®

## Surge Protectors

RoHS

RoHS Compliant Product  
RoHS Also Available

Details  
on  
Page 1

Color Code Legend  
New Sale Lower\$ QtySave

MADE  
IN  
USA



- Up to \$50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!
- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- 4 & 6-outlet protectors: 6' cord; 8 and 12-outlet protectors: 12' cord
- UL 1449 and 1283 listed • Lifetime warranty

ULTIMATE  
LIFETIME  
INSURANCE

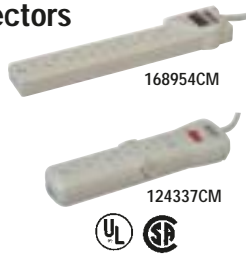
TRIPP-LITE

## Standard Surge Protectors

Economical and effective spike and noise suppression with diagnostic LEDs.

- 168954CM: • \$20,000 Ultimate Lifetime Insurance
- Up to 27,000 amp spikes • Weight: 1.2 lbs.
- 124337CM: • \$75,000 Ultimate Lifetime Insurance
- Up to 42,000 amp spikes • Weight: 1.6 lbs.

Part No.	Product No.	Joules	1	10
168954CM	Striker 7	750	\$8.05	\$7.65
124337CM	Super 7	2350	17.95	16.35



## 6-Outlet Surge Protector

- Standard 6-outlet surge suppressor
- Heavy-duty power cord (14AWG x 3)
- RESET/OFF switch with built-in 15A circuit breaker • Clamping voltage: 400V
- Max. surge dissip.: 900 joules • Max. surge volt.: 6500V • Max. spike cur.: 4500A

Part No.	Description	Wt. (lbs.)	1	10	100
216485CM	Surge suppressor	0.9	\$6.95	\$6.25	\$5.59



## RCA Integrated Wall Plate Surge Protectors

- \$5,000 surge equipment guarantee • Safe-operation indicator lights
- 2 outlets • Noise-filter • UL/CUL approved

235002CM: Satellite/Cable TV protection

- Cable ready • 670 joules

Includes: 6-foot coaxial cable

234991CM: Modem/Phone/Fax protection

- Internet ready • 410 joules

Includes: 6-foot phone line cord

Part No.	Product No.	Size (WxDxH)	Wt. (lbs.)	1	6	12
235002CM	SPC300	6.9"x1.0"x10.8"	0.7	\$3.95	\$3.58	\$3.26
234991CM	SPT300	6.9"x1.0"x10.8"	0.7	3.95	3.58	3.26

SALE



Top View

## SL WABER Compact Surge Protector for Notebook Computers

- Single 3-prong receptacle outlet with telephone modem protection
- 3-prong wall mount type • 210 joule rating
- Surge LED indicator • RFI noise blocker

Includes: 4' RJ11 cord

Part No.	Description	Size	1	10	25
206279CM	Outlet protector	2.3"W x 1.3"D x 3.3"H	\$5.89	\$5.31	\$4.75

SALE

UL



## Power-Strip-Saver Single Outlet and "Y" Double Outlet

Get full use of your power strips and UPS outlets with our high quality power strip outlet saver.

You can use all the outlets on your surge suppressors, UPS, and outlet strips.

Just plug a bulky power adapter into this cable and free up your other outlets.

- Length: 1 ft. • Cord type: SVT



Before



After



"Y" Strip Saver

4 Outlets Blocked Every Outlet is Usable For extra adapters

Part No.	Description	1	10	50
199777CM	AC power cord (black)	\$1.69	\$1.55	\$1.39
208338CM	AC power cord (beige)	1.69	1.45	1.09
208346CM	"Y" power-strip-saver	3.25	3.09	2.89

## Isobar Premium 19" Rack Mount Surge Protector

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
139686CM	IBAR12RM	1280	12 outlet, 2 isolated filters	4.7	\$119.95	\$107.99

## Isobar Premium Surge Protectors

18981CM	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	\$49.95	\$44.95
74544CM	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	54.95	53.25

## Isobar Ultra Premium Surge Protector

19001CM	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	\$69.95	\$63.74
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## 6-Outlet Surge Protector

- Metal
- 3-prong, 4' power cord
- Max. spike current: 4500 amps, 50 joules
- Size: 12.3"L x 2.4"W x 1.3"H
- Weight: 1.5 lbs.

Part No.	Description	1	10	100
20175CM	Metal power strip	\$9.85	\$8.85	\$7.85



Sesonic

## Power Angel Monitor

- Help to forecast and manage your electric bill
- Monitor AC power quality to protect sensitive instruments
- Choose the correct Uninterruptible Power Supply (UPS) based on the real VA of your equipment
- Use it anywhere with any 120VAC appliance
- Max. voltage: 125V, 50/60 Hz

Part No.	Description	1	10	25
422158CM	Power Angel	\$35.05	\$32.20	\$30.50



## Index of Electronics-Industry Books



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215052CM	Microcontrol'n Apps, PIC Microcontroller Applications	6
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174650CM	PIC Microcontroller Project Book, Beginner's Guide	6
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Place your order by 6PM EST for same business-day shipment.

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

**SALE**

**Quantity SAVE**



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19

## KVM Switchboxes

Part No.	Mfr.	Fig.	Mfr. Part No.	Description	Connectors	Size (L" x W" x H")	Wt. (lbs.)	1	10
114155CM	—	1	40H1-14402	2-way keyboard / mouse switchbox (2PCs to 1 user)	HDDB15 female / 5-pin DIN female	6.0 x 4.0 x 2.3	1.3	<del>\$14.95</del> <b>\$10.79</b>	<b>\$9.83</b>
310826CM	—	3	KVM2717	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	PS/2 female for keyboard & mouse, HDDB15 female for monitor. Requires 9.5VDC@500mA power supply - recommend P/N 100175CM pg 241	4.7 x 4.0 x 1.8	1.5	<b>49.19</b>	<b>36.89</b>
310842CM	—	4	2-PRT KVN-USB	2-way KVM switchbox (2PCs to 1 keyboard/mouse/monitor)	User connectors: PS/2 female for keyboard & mouse, HDDB15 female for monitor to PC connectors: two HDDB15 male for monitor, two USB-A male; two 3.5mm jack	2.9 x 2.7 x 1.1	1.5	<b>82.29</b>	<b>78.15</b>
310834CM	—	5	KS104	4-way KVM switchbox (4 PC's to one user)	PS/2 female for keyboard & mouse, HDDB15 female for monitor; Recommend P/N 202180CM pg 162 for power supply	7.4 x 2.9 x 1.3	7.1	<b>112.49</b>	<b>84.36</b>
149391CM	ATEN	6	CS-114A	4-way KVM switchbox (4 PCs to one user)	DB9 serial female / PS/2 keyboard & mouse (recommend P/N 204062CM for PS/2 cable see below) Includes manual and power supply	10.0 x 7.0 x 3.0	7.1	<b>179.85</b>	<b>162.59</b>
132249CM	—	7	40H1-25602	2-user switchbox (1PC to 2 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CM (5-pin M-M cable); P/N 66173CM (DB15HD M-M cable); P/N 132345CM (DB9 F-F cable) pg 106	7.5 x 5.3 x 2.8	1.6	<b>17.95</b>	<b>13.46</b>
79177CM	—	8	40H1-07402	2-way keyboard / monitor switchbox (2 users to 1 PC)	HDDB15 female / 6-pin DIN female	6.0 x 4.5 x 2.6	1.3	<b>19.95</b>	<b>17.95</b>
134017CM	—	9	40H1-25604	4-user switchbox (1PC to 4 users)	Keyboard (5-pin DIN male); Monitor (DB15HD female); Mouse (DB-9 male). Recommend P/N 114913CM (5-pin M-M cable); P/N 66173CM (DB15HD M-M cable); P/N 132345CM (DB9 F-F cable) pg 107	7.5 x 5.3 x 2.8	2.3	<b>21.95</b>	<b>19.95</b>

## Serial-to-PC Switchboxes

79126CM	—	10	40D1-10602	2-serial port switchbox	DB9 female (2-ports to 1PC)	6.0 x 4.8 x 2.5	1.2	<b>\$9.95</b>	<b>\$8.95</b>
183417CM	—	11	—	4-serial port switchbox	DB9 female (4-ports to 1PC)	6.1 x 4.0 x 2.2	1.3	<b>19.95</b>	<b>17.95</b>

## Network-to-Server Switchbox

180099CM	—	12	40R2-01604	4-server RJ-45 switchbox	4 RJ45 8P8C female (network devices to 4 servers)	8.0 x 6.1 x 2.2	2	<b>\$14.95</b>	<b>\$13.49</b>
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## Fax/Modem/Telephone-to-PC Switchbox

79142CM	—	13	40R1-01602	2-PC RJ-11 switchbox	RJ-11 6P6C (fax/modem/telephone to 2PCs)	6.0 x 4.8 x 2.5	1.2	<b>\$9.95</b>	<b>\$8.95</b>
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## Parallel Printer-to-PC Switchboxes

20095CM	—	14	40D3-17602	2-port switchbox	DB25 female (2PCs to 1 printer)	6.0 x 5.8 x 2.3	1.4	<b>\$8.95</b>	<b>\$7.95</b>
20124CM	—	16	40D3-17604	4-port switchbox	DB25 female (4PCs to 1 printer)	6.0 x 4.0 x 2.4	1.5	<b>14.95</b>	<b>13.49</b>
289211CM	—	18	25F6	6-port switchbox	DB25 female (6PCs to 1 printer)	7.6 x 6.0 x 2.5	2.2	<b>23.15</b>	<b>17.35</b>

## USB-to-PC Switchbox

310818CM	—	19	USB-2PORT	2-way USB switchbox	1 USB-B female; 2 USB-A female	5.1 x 3.7 x 1.8	2.5	<b>\$22.25</b>	<b>\$21.15</b>
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## PS/2 Cable

- Use with P/Ns such as 149391CM above

Part No.	Description	1	10
204062CM	6' PS/2 cable	<b>\$16.95</b>	<b>\$15.29</b>

## Digital Video Interface Cable

- DVI cable for flat panel LCD monitors and high-end video graphics cards
- Connector: DVI-D single link type
- Length: 6'

**Quantity SAVE**

Part No.	Description	1	10	100
320346CM	DVI cable	<b>\$13.45</b>	<b>\$12.69</b>	<b>\$9.52</b>

## Mid-Tower Computer Cases

- Classic design
- Easy access side panels
- Excellent cooling options
- Includes power supply
- Perfect for the gamer and enthusiast

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Computer Case Offering at [www.Jameco.com/Prod/PCCases](http://www.Jameco.com/Prod/PCCases)





## ATX Vertical Full Tower Case

- Slide-off side panel access
- LED indicators for power and HDD activity
- Front panel reset switch and power switch
- Internal 8Ω speaker
- 5 exposed 5.25" bays, 3 exposed 3.5" bays, 2 internal 3.5" bays
- Size: 7.5"W x 16.8"D x 24.5"H
- Weight: 25 lbs.

**SALE**



Part No.	Description	1	10
292066CM	ATX full tower	<b>\$28.39</b>	<b>\$25.79</b>

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## Short Haul Modem

- Up to 38,400 baud
- Will communicate over 6.3 miles of cable
- No external power required
- DCE/DTE selectable
- Xon/Xoff or hardware handshaking
- RS-232 interface (DB25 female)



Part No.	Description	1	10	25
116581CM	Short haul modem	\$29.95	\$26.95	\$23.95

## USB Fast Ethernet Adapter

- Plug and Play
- IEEE802.3 (10 BaseT) and IEEE802.3 (100 BaseT) specification compatible
- USB Rev 1.0 and 1.1 compatible
- Supports OHCI and UHCI
- Self-powered
- 1 upstream USB port and RJ-45 port
- Supports Windows® 98/ME/2000/XP



Part No.	Description	1	5	10
310797CM	USB-Ethernet Adapter	\$21.69	\$19.55	\$17.55

## USB Modem Adapter

This UC-232 USB serial modem adapter provides an external plug and play RS232 modem connection for PCs, notebooks, laptops, and handheld computing devices that support the USB specification.

- Data transfer rate: determined by modem
- Power consumption: 90mA
- Power mode: bus powered
- Size: 3.2"L x 2.2"W x 0.9"H

**Includes:** DB-25 male connector and USB type A cable

Part No.	Description	1	10
355696CM	USB modem adapter	\$15.45	\$13.95

## UTP Ethernet Cable Tester

- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Miswire, open, short tests

**Requires:** 9V battery (recommend P/N 151095CM, pg 251)

**Includes:** Zipper case

Part No.	Size (L x W x H)	1	10
115895CM	4.5" x 2.5" x 1.3"	\$29.95	\$26.95

## Modular Cable Tester

Easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables, 258A, TIA568A/568B, token ring, etc.

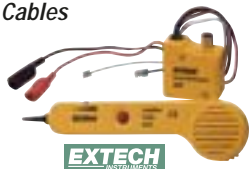
- Check for cable continuity, miswiring, open, short, grounding, and pin configurations
- One-year warranty
- Cable adapters: RJ45 M-M, 2 RJ45M-BNCM & BNC F-F
- On-board conn.: 2 RJ45F (tester) & 1 RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)

**Includes:** Manual and test cables

Part No.	Description	1	10
145710CM	Modular cable tester	\$84.95	\$76.49

## Tone Generator & Amplifier Probe For Tracing Wires & Cables

- Tests wire trace, continuity, clear/busy/ringing line, tip/ring identification
- Insulated inductive probe tip prevents shorting conductors
- Selectable continuous or variable tone generation
- Output jacks for both headphones and handsets



**Includes:** Alligator test leads, modular phone connector cables, 9V battery, and carrying pouch

Part No.	Description	1	10
198002CM	Tone gen. & amp. probe	\$79.95	\$71.95

## Net Toner and Probe Kit

With testing functions such as sending tones, verifying lines, indicating line conditions, identifying tip and ring, providing "talk" battery and testing continuity, you can use this kit on single conductor, twisted pairs, coaxial cables, and non-energized electrical wiring. Connections include alligator clips, RJ45 jacks and RJ12 plugs.

**Includes:** Padded zipper case w/ belt loop & spare tips

Part No.	Description	1	5
227897CM	Net toner & probe kit	\$69.85	\$63.50

## Network and CATV Cable Tester

Continuity tester for twisted pair cables and F-type coax cables.

- Tests for shorts, opens, miswires, and reversals
- Tests EIA/TIA568A and 568B, 10Base-T
- "F" connector for troubleshooting CATV and coaxial installations
- Tests installed wiring and jumper cables, shielded or unshielded twister pair cables (CAT5e/CAT5/CAT4/CAT3)
- Includes 2 AAA batteries
- Tests cable lengths from 3 ft. to 600 ft.

Part No.	Product No.	Price
645634CM	CT100	\$28.49

## LANtest Network and Modular Cable Tester

- Tests 10Base-T, 10Base-2 thin ethernet cable, RJ45/RJ11 modular cables, 356A, TIA568A/568B and token ring cable, etc.
- Easy to verify cable continuity, open, short and miswire
- Can test the grounding
- Power switch provided for saving battery power

Part No.	Product No.	1	10	50
615136CM	45-5767-0000	\$115.79	\$104.24	\$93.82

⚡ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

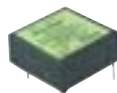
[www.Jameco.com](http://www.Jameco.com)

Our enhanced website offers over 200,000 product cross references.  
Find products quickly and order easily!

## Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.

- Series resistor: 300
- Nominal output voltage: 86Vrms
- No reverse polarity protection
- Frequency: 20Hz



Part No.	Product No.	1	10	25
145816CM	LBMR12	\$24.25	\$22.05	\$19.75

## Bidirectional Non-Buffered Serial-to-Parallel Converter

- Bidirectional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake Xon/Xoff; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female and one Centronics 36-pin male
- Baud rate: 300 to 38,400bps
- Size: 4.0"L x 2.5"W x 1.0"H
- Stop bits: 1 or 2
- Weight: 0.8 lbs.
- One-year warranty

**Includes:** AC adapter (9VAC @ 200mA) and manual

Part No.	Description	1	10	25
116935CM	Bi-converter	\$49.95	\$44.95	\$33.71

## Bidirectional Serial-to-Parallel Converter

115.2kbps, 512kB Buffer

- One DB25 female connector, one Centronics 36-pin male connector
- Fully compatible w/ Win® 95
- Baud rate: 300bps - 115,200bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status
- DCE/DTE selectable
- Stop bits: 1 or 2
- Weight: 0.8 lbs.
- Size: 3.8"L x 2.4"W x 1.0"H
- One-year warranty

**Includes:** 9VAC @ 200mA adapter

Part No.	Description	1	10
182983CM	Serial/parallel converter	\$48.49	\$44.95

## Networking Products

### Encore Modems

Built with an advanced Smart Link chipset and features a complete system design that provides data faxing and TAM for 56k dial-up internet access.

### Wintec Embedded Modems

Modules can easily be integrated into a host and can provide a low cost communication link to the outside world.

### Bytecc Bluetooth

Bluetooth USB Adapter is an external adapter enabling Notebook and Desktop PC through USB interface to communicate wirelessly with other Bluetooth enabled devices.

### Edimax Network Switches

Switches for improving the performance of small network or solution for the most powerful high speed network.

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# Network Products, Rack Mount Accessories & Interface Cards

## IBM® 8-Port Ethernet Hub

Although designed to the exacting standards of IBM for use in large corporate networks, its price and easy setup make it perfect for small office or home office use. Compatible with all standard STP, UTP, and FTP cables. Can be cascaded to support larger networks via the MDI (uplink) port.

• Size: 8.7"W x 5.3"D x 1.1"H • Weight: 1.7 lbs.

Part No.	Description	1	10
226149CM	8-port hub	\$44.95	\$39.95

## External 3-Port USB Thumbhub

Expand your single USB port to a stacked 3-port thumbhub.

- USB Revision 1.1 compliant
- LED indicators uplink/down port communication, and OCP status
- Supports full speed (12Mbps) and low speed (1.5Mbps) transfer rate
- Self-powered mode
- Compatible with Windows® 98/98SE/2000/ME/MAC OS8.5
- Size: 3.1"L x 0.8"W x 1.2"H

Part No.	Description	1	10
208451CM	3-port thumbhub	\$12.49	\$11.49

## ATEN® RS-232 to RS-485/422 Bidirectional Converters

- Cable length: 4000' max.
- Data rate: 1MB/second
- Controlled by RTS signal
- 4-wire full duplex or 2-wire half duplex
- DCE and DTE selectable
- Point-to-point and multidrop operations
- RS-232: DB25 female connector
- RS-485: terminal block and RJ11 connections
- Input: 110VAC; except P/N 129218CM 220VAC input
- Weight: 0.9 lbs.
- One-year warranty

1797931CM: port powered (power adapter not included)

• Data rate: 100kbps

122956CM: features RS-485SI; optical isolation: 2000V

129218CM: features 220VAC input

Includes: 9VDC @ 300mA power adapter

Part No.	Description	1	10
117701CM	RS-232-485/422	\$57.95	\$51.95
197931CM	RS-232-485/422	69.95	52.45
122956CM	RS-232-485/422 OPT ISO	119.99	89.99
129218CM	RS-232-485/422 (220 VAC)	42.95	36.95

## USB 2.0 Docking Station

- Connects via USB-A port to your laptop
- Size: 4.8"W x 2.5"D x 1.0"H

System Requirements:

- PC with minimum 75MHz Pentium or equivalent; 16MB of RAM minimum, available USB-A port, Windows® 98 or later

Part No.	Product No.	1	5
527822CM	USB 2.0 dock	\$35.99	\$29.95
		\$29.95	\$17.49



## Network Adapters

### Server Adapters

Compatibility tested, and come in a broad range from 10/100 Mbps to 10 Gbps, copper or fiber, in single- to quad-port configurations.

### Desktop Adapters

Award-winning line of Ethernet, Fast Ethernet and Gigabit Ethernet desktop adapters designed to extend Gigabit Ethernet performance to the desktop.

### Wireless Adapters

PRO/Wireless Network Connection is the integrated Wireless LAN (WLAN) solution for Intel® Centrino™ mobile technology. The Intel PRO/Wireless Network Connection works in concert with other Intel Centrino mobile technology components.

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## 19" Rack Mount Enclosures

- Ventilation holes on all sides
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Front panel: 0.12" thick
- Black front panel
- Top, bottom, sides durable 0.035" steel
- All enclosures have handles except P/N 132812CM

Blue Part No. = Limited Quantity Available

Includes: Mounting screws

Part No.	Dimensions (In.)			Wt. (lbs.)	Pricing	
	H1	H2	D		1	10
132812CM	1.73	1.25	9.75	6.2	\$39.95	\$35.99
132821CM	3.46	3.00	9.75	7.9	47.95	43.49
132839CM	3.46	2.88	11.75	9.1	53.95	48.59
132847CM	5.22	4.75	11.75	10.6	63.95	55.99
132855CM	5.22	4.75	13.50	11.8	73.95	66.95
132863CM	8.56	8.00	13.50	15.4	94.95	84.95

## 19" Rack Mount CAT 5 Patch Panels

Our CAT 5 patch panels feature 110D punch blocks that are compatible with KRONE or 110D tool. UL and CUL listed and certified, CAT 5 certified and can be used with T568 A/B installations. Blocks are color coded for T568 color-coding, and easy wire management.

Part No.	Description	1	10
208768CM	12-port patch panel	\$28.99	\$27.55
208784CM	24-port patch panel	42.75	39.95

## Relay Rack & Rack Panels

Rack:

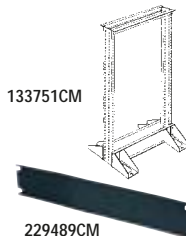
- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84"H
- Dimensional weight: 70 lbs.

19" Wide Panel:

- 10-gauge black steel

Rack screw: • 10/32 screw; 5/8" phillips head (50 ea.)

Part No.	Description	Height	1	10
133751CM	Relay rack	84"	\$159.95	\$147.00
229489CM	Rack panel (2U)	3.50"	10.95	10.35
229500CM	Rack panel (4U)	7.00"	14.55	13.95
229446CM	Rack screw (50 ea.)	—	8.25	7.45



## Cabinet Mounting Plate for 19" Cabinet

- Use as industrial chassis mounting plate for servers, PCs or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H

Part No.	Description	1	10
149500CM	Cabinet mount plate	\$39.95	\$35.95

## 19" Rack Mount Drawer with Keyboard and Trackball

- Occupies a single unit (1U) rack space
- PS/2 connector for keyboard and trackball
- Size: 19"W x 13"D x 1.75"H
- Weight: 18 lbs.

Includes: Wrist pads, module, PS/2 to 5-pin DIN and PS/2 to 9-pin adapters, and software

Part No.	Description	1	10
220644CM	Rack mount KB drawer	\$249.99	\$234.99

## Digital I/O Board TTL Level PCI Bus

- Output: 2.5mA @ 0.45V sink, 2.5mA @ 2.4V source
- 24-bit digital I/O
- Three 8-bit ports

Includes: InstaCal: installation & test utilities software

Part No.	Product No.	1	10
197827CM	PCI-DIO24	\$88.95	\$85.95

## PCI GPIB IEEE-488.2 Board

PCI Bus

- 1 MB/s transfer rate
- 1024 word FIFO buffer
- 7 interrupt lines, shared interrupt capability
- IEEE 488.2 standard interface
- Complete talker/listener/controller
- Transparent interrupt enabling/disabling

Part No.	Cross Ref. No.	1	10
171212CM	PCI-GPIB-1M	\$398.95	\$358.95
73154CM	IEEE-488 1 meter cable	36.49	32.79
115781CM	IEEE-488 2 meter cable	37.95	34.19
115801CM	IEEE-488 4 meter cable	38.95	36.19



RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

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271



## Complete Embedded Ethernet and Internet Book

**Lakeview Research** Learn about networking with embedded systems. Topics include networking basics, hardware options in building a network, using internet protocol in local and Internet communications. (482 pages, 2003)  
• Size: 7.0" x 9.0" • Weight: 1.7 lbs.



Part No.	Description	Price
236945CM	Ethernet and Internet Book	\$44.95

## Server Chassis



### Intel® Server Chassis

Designed and validated for easy, cost-effective integration. A full line-up of pedestal and rack-optimized chassis are available to meet your customers' diverse needs.



**Additional Server Chassis available from SuperMicro, Evercase and Wintec**

**Also available Intel Slim Line Drives**

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## Graphics Cards

### TV Tuner Cards

Allow broadcast TV viewing, stereo FM radio, live video display and video communication on a PC with the finest quality and optimal performance.

### Graphics Cards

Revolutionary design that delivers best-in-class performance on today's hottest games & applications.

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Our Complete Graphics Card Offering at [www.Jameco.com/Prod/GraphicsCards](http://www.Jameco.com/Prod/GraphicsCards)



## Handheld HDTV Pattern Generator

B&K Precision's model 1253 is an affordable HDTV test pattern generator that delivers accurate test patterns for the testing of the most common HDTV displays including Plasma, LCD, TFT, CRT, DLP, GLV and OLED digital display products. The 1253 can display from its HDTV Component (YPbPr) outputs fourteen of the most useful patterns for twelve of the most commonly used video formats (S-Video output patterns provide luminance only). The 1253 displays the most popular formats including 1920 x 1080 30i, 1280 x 720 60p, 704 x 480 60p, NTSC, PAL & SECAM. A unique feature of the 1253 is the Overscan DVD Aspect Ratio pattern. This feature covers the most commonly use aspect ratios used for all movies recorded to DVD media.



- Patterns: SMPTE bars, PLUGE, needle, color bars, cross hatch, DVD Aspect Ratio, raster, multiburst, focus, staircase, window, checker, overscan
- Y output: 1Vp-p into 75Ω
- S-video (SVHS) 5-pin DIN connector
- Power source: 9V battery
- Red LED power indicator
- Size: 5.6"L x 3.1"W x 1.1"H

**NEW**

Part No.	Description	Price
681504CM	HDTV pattern generator	\$595.05

## Flat Panel Speaker System

- Built-in amplifier
- Low distortion
- Magnetically shielded
- Designed for multimedia use
- Ultra thin satellite speaker and 3" subwoofer cone type speaker
- Frequency response: 80Hz-16kHz
- Power output: speakers - 1W +1W (RMS) subwoofer - 5W (RMS)
- Front access LED, power, and volume controls
- Size: satellite - 5"W x 7.5"H x 2.5"D subwoofer - 5.75"W x 5.5"H x 6.6"D



**Includes:** Power adapter

Part No.	Description	1	10
382740CM	Flat panel speaker	\$18.89	\$17.49

## 480-Watt Multimedia Speakers

- 2 magnetically shielded speakers
- 2-channel stereo amplifier
- Push button type power switch with LED indicator
- Knob controls for volume, bass & treble
- Input voltage: 120VAC
- Size: 5.5"W x 7.0"D x 9.1"H
- Weight: 5.3 lbs.



Part No.	Description	1	10
196066CM	480W speakers	\$39.95	\$35.95

## PC Speakers

**SALE**

Perfect for desktop PCs with limited amount of space. Compatible with any desktop PC.

- 3.5mm stereo male plug
- Size: 4.7"H x 3.0"W x 4.0"D



Part No.	Cross Ref. No.	1	5	10
311079CM	5065-5746	\$13.59	\$12.23	\$11.00

## Industrial Gooseneck Microphone

- Dynamic
- Unidirectional
- On-Off switch on MIC head
- Flexible gooseneck
- 80Hz-16kHz
- 500Ω impedance
- Sensitivity: -54dB±3dB
- XLR 3-pin female connection



Part No.	Description	1	5
540701CM	Microphone	\$34.79	\$31.29

## Push-to-Talk Hand-Held Microphone

- 5 wire
- 500Ω impedance
- For CB & professional communications
- Push to talk
- Unbalanced (TS) plug



Part No.	Description	1	5
540613CM	Microphone	\$12.29	\$11.07

⚡ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Hands-Free Condenser Microphone

- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- One-year warranty



Part No.	Description	1	10	50
135247CM	Microphone	\$4.49	\$3.99	\$3.65

## Hands-Free Condenser Microphone

- Clip on microphone
- Cord length: 8'
- Connector: 3.5mm male stereo plug
- Size: 1.7"L x 1.3"W x 0.9"H



Part No.	Description	1	10	100
319759CM	Microphone	\$3.89	\$3.31	\$2.48

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Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily!



## Committed to You



We're committed to providing you with the best service in the industry.

## Multimedia Speakers

- Powerful speakers enhance your gaming experience
- Unique techno lighting adds awesome visual effects

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## E-Mail Desktop Microphone

*Add your voice to e-mail messages, with the touch of a button!*

This revolutionary desktop device will change the way you use e-mail! Simply press a button and speak into the omnidirectional condenser mic, and the technology does the rest. Included software facilitates file-management, and an optional add-on will even make an MP3 file from your words!



Part No.	Description	Price
315070CM	E-mail desktop microphone .....	\$41.95

## Digital USB Voice Recorder

*Pocket "secretary" captures all your great ideas.*

Once you begin to use this sleek, feature & accessory-packed tapeless recorder, you'll wonder how you ever got along without it. Record up to 396 addressable messages totaling 9 hours (SP) or 18 hours (LP). They can be meetings, phone conversations, or audio from external devices, all in flawless digital clarity. USB connectivity quickly downloads your recordings to your PC. Included accessories: earphone, external (meeting) microphone, telephone adapter, audio cable, PC software, USB cable, and hand strap.



*Includes all the accessories needed!*

Part No.	Description	Price
237198CM	USB voice recorder, 9-18hrs .....	\$108.95



## AverKey Pro PC-to-TV Converter Box

- Converts VGA video or Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- TV brightness control
- Compatible w/ Microsoft® Windows® 3.0 and higher
- Weight: 2.2 lbs.
- Two-year warranty



**System requirements:** VGA-based PC, DOS 3.0 or higher, 640KB RAM or larger

**Includes:** PC-to-TV converter, adapter, cables & manual

Part No.	Description	1	10
167193CM	Video signal pro .....	\$89.95	\$81.65

## 10" B&W Security Monitor w/ Audio

- EIA format
- 9" viewable screen
- Resolution: 700 line
- Push down front panel for volume and power switch
- BNC jacks for audio/video input
- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- Size: 9.3"W x 12"D x 9.1"H



• Weight: 15 lbs.

**Includes:** Manual

Part No.	Description	1	10
253067CM	10" B/W monitor .....	\$109.05	\$89.95

## 5.6" Color TFT Monitor

**NTSC Format**

- TFT color LCD display
- 224 x 640 pixel display resolution
- Built-in 1 watt speaker
- Brightness, color and volume adjustments
- Video input: 1.0Vp-p; 75Ω
- Audio input: 2Vp-p; 2kΩ
- Size: 6.1"W x 1.2"D x 4.8"H



• Weight: 2.6 lbs.

**Includes:** RCA cable, mounting stand with hardware and 12VDC @ 500mA power supply

Part No.	Description	1	10
201702CM	5.6" TFT color monitor .....	\$279.95	\$259.95

## 4" TFT LCD Monitor

**NTSC Format**

- TFT color LCD
- Resolution 234 x 383dpi
- Backlight: cold cathode fluorescent lamp
- Power source: 12VDC @ 400mA
- 5" long lead wire with 4-position Molex-type power connector
- Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit)



• Weight: 0.7 lbs.

Part No.	Description	1	10
172742CM	4" color LCD monitor .....	\$159.95	\$149.95

## 30-Day Money-Back Guarantee

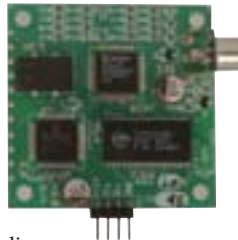
If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

## ezVID Serial Video Module

The ezVID Serial Video Module gives microcontrollers the ability to generate text and graphic images on monitors, televisions, and similar-type equipment that accept composite NTSC video signals. This is a nice alternative to applications where you don't want to use LEDs and LCDs. The ezVID provides for professional applications such as text messaging, diagnostics and status indication, but is also useful to the enthusiast user for applications in simple video games and graphics. The simple ezVID serial commands allow placement of any built-in or user defined character anywhere on the screen in any one of fourteen colors. An on-board controller and special video chip designed by Multilabs allows simple color video generation with only two asynchronous serial communication lines. The ezVID is compatible with most microcontrollers, including the BASIC Stamp.

- 9600 baud TTL level serial interface
- True bitmap display with no character cells
- 63 built-in standard characters
- Standard composite NTSC non-interlaced video output

- Screen resolution of 188 by 254
- 14 different colors available
- 256 user-definable characters
- Easy to use SIP package only measuring 2" by 2"



Part No.	Description	1	10
355856CM	Serial video module .....	\$59.95	\$55.95

## XBOB-NC Video Text Module

XBOB integrates Decade's third-generation OSD technology into a convenient plug & play format.

The command set is nearly identical to that of our popular BOB-3 module (see below), and XBOB includes all of the optional circuitry described in the BOB-3 Application Guide. XBOB lets your PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable character patterns, XBOB supports pseudo-graphics and multiple languages. XBOB generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control XBOB through a fast RS-232 data link, much like a simple serial printer.

- Higher display density; 40x17 characters (680 max.)
- 254 ROM character patterns plus 63 user-definable RAM characters
- Character size control
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)
- Faster & more reliable host communication
- Stand-alone operation, for simple source ID or fixed reticle applications
- Improved automatic video mode control



Part No.	Description	1	10
283768CM	XBOB video text module .....	\$189.95	\$179.99
237243CM	9VDC power supply .....	2.35	2.15
283776CM	Serial cable .....	9.95	8.95

## BOB-3 Video Text Module



BOB-3 is Decade's third-generation low-cost video text overlay module. BOB-3 lets your microcontroller or PC display up to 680 characters on standard video monitors and TV sets. With 63 user-definable characters, BOB-3 supports pseudo-graphics and multiple languages. BOB-3 generates video on-board, or automatically genlocks to your video source and superimposes characters over the image. Printable characters and commands control BOB-3 through a fast RS-232 style data link, much like a simple serial printer. BOB-3 is compatible with most microcontroller chips and modules, including the BASIC Stamp.

- Higher display density; 40x17 characters (680 max.)
- Faster & more reliable host communication
- Software-controlled digital outputs (6)
- Improved automatic video mode control
- Stand-alone operation, for simple source ID or fixed
- Character size control reticle applications
- 254 ROM character patterns plus 63 user-definable RAM characters
- Horizontal (1 line) and vertical smooth scrolling (up to 16 lines)

Part No.	Description	1	10
283733CM	BOB-3 video text module .....	\$99.95	\$94.95

## Committed to You

We're committed to providing you with the best service in the industry.

## DigiVue™ Complete Digital Security Video Recording System

Kit includes a PCI video capture card, 2 outdoor color day/night cameras, 2 micro dome color cameras, video recording software with drivers, four 50' video/power cables and 4 power supplies for the camera.



### EDV-XV425 Video Capture Card:

- 60 fps per card
- Monitors multiple IP addresses
- Supports multiple card installations
- 4-channel video and 1-channel audio
- Supports real time WAN/LAN and internet monitoring

### EC-624 Outdoor Color Day/Night Camera:

- 1/4" CCD imaging chip • 30 feet IR range
- 0.1 lux sensitivity • Built-in electronic iris control
- 420 TV line resolution • 6mm lens with F2.0

### ECMD-01 Micro Dome Color Camera:

- CMOS imaging chip • Clear dome
- 380 TV line resolution

Part No.	Product No.	1	10
639584CM	EDV-XV425 kit	\$449.99	\$405.00

## VISEC Home Office Security System

Turns your PC into a powerful, global-wide surveillance system in 5 minutes or less.

- Watch live or recorded video from anywhere in the world via the Internet
- Record months of video at a time
- Record when motion is detected, incrementally or continuously
- Be alerted when intruder enters with a picture to your cell phone, PDA or email address
- Supports multiple cameras including: webcams, spycams, wireless and IP based network cameras



**Minimum system requirements:** Windows® 95/98/ME/NT/2000/XP

Part No.	Description	1	10
404531CM	Security system	\$150.99	\$139.00

## DigiVue™ Digital Surveillance System

This high-speed PCI video capture card comes with 4 video inputs, 1 audio input that provide & super digital images from multiple cameras and remote surveillance. Add up to 4 cards per system controlling up to 16 cameras.



- Input signal: 4 video, 1 audio channel
- Watermark time and date stamp
- Display and record: 60 frames/sec.
- Enhanced MPEG4 format
- Adjustments: light, contrast, hue, saturation
- Record mode: event/continuous/schedule
- Resolution: 160 x 120 to 640 x 480
- Storage: HDD/VDRAM/CD-RW/DAT/MO/ZIP/RAID
- Supports real time WAN/LAN and internet monitoring via client software, internet explorer

**Includes:** CD-ROM and drivers

**Minimum system requirements:** Pentium 4, 1.8GHz, 256MB RAM, 32MB AGP video card

Part No.	Product No.	1	10
639568CM	EDV-XV425	\$94.95	\$85.46

## 14" Color CCTV Monitor

- NTSC/PAL switchable
- Operating frequency: EIA - 15750Hz/60Hz; CCIR: 15625Hz/60Hz
- Input voltage: 100 - 240VAC @ 50/60Hz
- Input signal: CVBS - 1Vp-p (typical); Y/C separation - 1Vp-p
- Input impedance: hi/lo impedance (switchable)
- Video in/out channel (BNC): 2 BNC connectors (CVBS in/out); 2 4-pin mini DIN (YC in/YC out)
- Audio in/out channel: 2 inputs/2 outputs
- Front panel control: power on/off; contrast, brightness, color, tint, sharpness, volume (AV/YC) switches
- CRT dot pitch: 0.63mm • CRT: 14" diagonal
- Power consumption: 70W
- Resolution: >420 lines
- Size: 13.8"W x 14.4"D x 12.6"H • Weight: 31.9 lbs.



Part No.	Mfr. Part No.	1	10
320119CM	15-MC14A	\$277.39	\$249.65

## Self-Contained Security System

The ABS-100+ security system is a self-contained system which is comprised of a control panel, motion sensing device, a 115dB siren all built-in inside an easy to mount steel cabinet. Mounted to a ceiling, infrared motion sensor can sense up to 12 feet high and 30' wide. Two remote controls are provided for easy arming and disarming of the system. The power supply can either be plugged into an outlet or mounted inside the control compartment for applications where hard-wire with electrical conduit is required. A 12VDC auxiliary power is provided as well. Input terminals are provided to wire optional window and door switches, remote sensing devices and more. An output is also provided with an onboard relay providing you with a 5A N.O./N.C. contact which is activated when the unit is triggered. Use in sheds, storage rooms, hallways, stairwell landings, and so on.



- Heavy gauge steel cabinet • 115dB siren
- Passive infrared motion detection
- Size: 9.0"W x 9.0"D x 7.25"H
- Weight: 11 lbs. (without battery)

Part No.	Product No.	1	10
681213CM	ABS-1000+	\$169.95	\$161.45

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Email us 24/7 at  
**NewProducts@Jameco.com**  
with suggestions for products you'd like to see in future catalogs.

## Black and White CCD Camera with 6" Monitor

**Camera: EIA Format**

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 420 TV lines
- 6 IR LED light for view in the dark applications
- Min. illumination: 0 lux with LED; 0.1 lux without LED
- Signal & noise ratio: >48dB • Built-in audio function



**Monitor: EIA Format**

- 6" Monitor with auto switching audio/video input; auto switching time selectable (2 to 20 seconds auto cycling)
- 2-channel audio/video input, 1-channel audio/video synchronous output
- Contrast, brightness and V frequency adjustment at the back of the monitor
- Auto switching time selection, volume adjustment button on front panel
- Time (seconds) scale display in front panel
- Size: 6.6"W x 5.5"H x 7.5"D

**Includes:** camera with bracket, cable 13.5VDC @ 1.2A power supply

Part No.	Description	1	10
639613CM	Camera with monitor	\$122.55	\$110.30

## USB Color Camera with Built-In Illuminator

Just connect this camera into your computer's USB port, install the included software and you are ready to be seen on the web.

- 1/3" CMOS digital sensor
- 6mm lens • 350k pixels
- Still image: 640 x 480 • View angle: 62°
- Min. lux: 0 (w/ IR illuminator) • USB powered
- Slide bar hue, contrast and brightness control
- Auto or manual exposure, gain and white balance adjustments • 380 line resolution
- Frame rate: 15fps @ 640 x 480 res.; 3fps @ 160 x 120 to 352 x 288 res.

**Includes:** CD ROM software and drivers

Part No.	Product No.	1	10
639576CM	EC-PC-CAM	\$47.45	\$42.71

## High Resolution Security Monitors

Speco solutions for your security monitoring needs. Both have metal cabinets, front controls, and are UL listed.

**541000CM:**

- 12" B/W monitor
- 800 line resolution
- Video input/output looping; no audio



**541018CM:**

- 17" color monitor
- 520 line NTSC/625 line PAL resolution
- Auto detect system
- 2 BNC input/output
- 1 RCA input/output



Part No.	Product No.	1	5
541000CM	VM-1201B	\$141.55	\$127.39
541018CM	VM-1705C	\$48.09	\$493.26

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## Black and White Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420TV lines
- Min. illumination: 0.1 lux
- Horizontal freq.: 15.734kHz
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz
- Clock freq.: 19.0699MHz
- S/N ratio: 48dB
- Scanning system: 2:1 interlace
- Electronic shutter: 1/100,000 sec.
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight compensation and auto-gain control selectable
- Power requirements: 12VDC @ 100mA; 24VAC
- Size: 4.5"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.



Part No.	Description	1	10
245041CM	Black & white CCD camera ....	\$99.95	\$89.95

## Color Camera with 8mm Lens

- 1/3" CCD image sensor
- Horizontal res: 420 lines
- Min. illumination: 0.5 lux
- 510(H) x 492(V) EIA signal format
- Vertical freq.: 60Hz
- S/N ratio: 52dB
- Scanning system: 2:1 interlace
- Electronic shutter: 1/120,000 sec.
- Auto iris lens: DC drive/AES/video drive
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max., 50Ω
- Backlight, auto-gain, and mirror reverse picture switch selectable
- Auto-tracing white balance
- 2X digital zoom
- Power requirements: 12VDC @ 150mA
- Size: 5.0"L x 2.0"W x 2.0"H • Weight: 0.8 lbs.



Part No.	Description	1	10
395461CM	Color camera .....	\$103.35	\$93.89

## Waterproof Tube-Style IR Color Camera

### NTSC Format

- For indoor and outdoor use
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 420 horizontal line resolution
- 59.94Hz vertical frequency
- Scanning system: 2:1 interlace
- 0 lux w/ 20 IR LEDs
- Internal synchronization
- S/N ratio: >48dB
- Up to 1/100,00 sec. electronic shutter
- Auto white balance and gain control
- 880 ~ 940nm infrared wavelength
- Video output: 1Vp-p, 75Ω
- 4.3mm lens with F1.8 • Size: 2.1"Dia x 3.8"L



**Requires:** 12VDC @ 160mA power supply (recommend P/N 162996CM, pg 240)

**Includes:** Mounting hardware

Part No.	Mfr. Part No.	1	10
319901CM	15-CM25WM .....	\$189.05	\$184.29

## Night Vision Infrared Lighted Camera

### EIA Format

- Adjustable camera lens
- Auto iris controlled
- Built-in voltage regulator
- Horizontal synch. frequency: 15.734kHz
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Video output: 1Vp-p; 75Ω
- Audio output: 2Vp-p max.
- FOV: 92°
- Matching conn.: RG59 BNC (P/N 71271CM, pg 155)
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.

**Quantity SAVE**



**Includes:** 12VDC @ 500mA power supply and wall mounting bracket

Part No.	Description	1	10
150404CM	Infrared lighted camera .....	\$119.95	\$89.96

## Color Interline Camera

### Water Resistant with Adjustable Mounting Bracket

- EIA format
- 1/3" CMOS image sensor
- EIA format: 512(H) x 492(V)
- 330 horizontal line resolution
- 2:1 scanning interlace system
- 5 lux sensitivity
- Video output: 1V p-p; 75Ω • 6mm lens/F2.0
- S/N ratio: 40dB • FOV: 530
- Electronic shutter: 1/60 – 1/1,200 sec.
- Connectors: 1 standard RCA female jack for video, and in-line 2.1mm power-plug connector for power supply
- Size: 2.6"L x 0.9"Dia.



**Includes:** Adjustable mounting bracket, instruction sheet and 9V @ 100mA power supply

Part No.	Description	1	10
185017CM	Color camera .....	\$99.95	\$89.95

## SONY® Color CCD Camera

### Sony Chipset

- 1/4" Sony super HAD CCD sensor
- NTSC system with 510(H) x 492(V)
- Furnished mini lens: 3.6mm
- Minimum illumination: 0.5 lux @ F2.0
- Signal to noise ratio: >48dB • 330 TV lines
- Supports these functions: auto electronic shutter (AES), auto iris control (AIC), auto gain control (AGC), auto white balance (AWB), back light compensation (BLC) and flicker less (FL)
- Video drive iris control; high/low switchable auto gain control; on/off backlight compensation
- Internal, negative synchronous system
- Video output: 1Vp-p; 75Ω



**Requires:** 12VDC @ 120mA power supply (recommend P/N 163993CM, pg 241)

**Includes:** Power/signal cable & mounting hardware

Part No.	Description	1	10
213436CM	Enclosed color camera .....	\$179.95	\$161.95

## 2.4GHz Wireless Weatherproof Color Camera with PIR

### NTSC format

- For indoor and outdoor use
- 1/4" CCD image sensor
- 380 horizontal line resolution
- 3 lux with F2.0; 0.5lux with F1.2
- Video output: 1Vp-p, 75Ω
- Audio output: 2Vp-p max
- Transmitter output power: 10mW
- Output impedance: 50Ω typical
- Pulse counter w/ automatic reset
- Size: 4.2"W x 5.0"D x 4.8"H



**SALE**

**Includes:** 12VDC @ 500mA power supply and mounting hardware

Part No.	Mfr. Part No.	1	10
319871CM	15-2400CTH .....	\$212.89	\$191.60

## Mini Dome Color Camera

### NTSC Format

- Perfect for ceilings
- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- S/N ratio: 46dB
- 15.73kHz horizontal synch. frequency
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0
- Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA (recommend P/N 162996CM, pg 240)
- 2 lux/F2.0 • FOV: 92°
- Size: 3.5"Dia. x 2.3"H



**Quantity SAVE**

**Includes:** Mounting hardware

Part No.	Description	1	10
171037CM	Mini-dome camera .....	\$139.95	\$104.96

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Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.



SONY®

## Black & White Low-Light Camera

### Sony Chipset

- Signal to noise ratio: >48dB
- Requires 12V power source (not included) 150931CM
- 6" wires with 4-pin Molex-type keyed connector
- EIA system 537(H) x 505(V)
- Temp. tolerance: -5°C to 40°C • Lens: 3.6mm
- Composite output with 420 line resolution
- Shutter speed: 1/60 - 1/1000 • FOV: 92.6°
- Video output: 1.0Vpp composite video/75Ω
- Size: 1.3"L x 1.3"W x 1.0"H • One-year warranty

Lower \$\$\$

Part No.	Description	1	10	25
150931CM	Camera board	\$69.15	\$62.23	\$56.00
159071CM	8mm lens 38.6"	16.15	15.39	11.54

## Black & White Camera with Lens

### EIA Format

- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal res.: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- Power supply: 12VDC (recommend P/N 162996CM, pg 240)
- Video output: 1Vp-p, composite video 75Ω
- Size: 1.3"L x 1.3"W x 1.2"H • S/N ratio: 46dB
- Power consumption: 110mA • FOV: 92°
- Electronic shutter: 1/125,000 sec. (linear)

Part No.	Description	1	10
171029CM	Camera board	\$44.95	\$40.45

## Color CMOS Camera Board

### NTSC Format

- 1/3" image sensor
- 5.0 CMOS lux • FOV: 92°
- 3.6mm lens/F2.0 • 330 TV lines
- Low power consumption
- Automatic exposure, gain and white balance • Size: 1.0"L x 0.9"W x 1.1"H

Part No.	Description	1	10
171011CM	Camera board	\$77.65	\$69.89

## Mini Wireless Color Camera

Now you can place a color video camera with sound almost anywhere! This super-small (1" x 3/4" by 7/8") 1/4 ounce, 3 Lux wireless camera and receiver combo delivers sharp, full-motion video images at 380 lines of resolution. With its 150-foot (unobstructed) range, light weight, and 9-volt battery power, you can now add video capability to a world of hobby applications.

Part No.	Description	1	10
249025CM	Wireless color camera	\$89.95	\$80.95

### Cable Assembly (75Ω RG59/U BNC - BNC)

Part No.	Length	1	10	50	100
262730CM	25' ⊕	\$9.95	\$8.95	\$8.05	\$7.25
262748CM	50' ⊕	17.05	16.25	15.45	14.69
262764CM	100' ⊕	30.39	28.89	27.45	25.99

For additional BNC Cables see pages 115 & 155.

## 4-Channel 2.4GHz Wireless Audio/Video Transmitter System

### CCIR, NTSC, PAL, EIA Format

- ISM Band: 2.413 - 2.470GHz
- Four selectable transmitter and receiver channels
- Antenna mode: dipole (omnidirectional)
- Impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max. • Weight: 3.2 lbs.

**Includes:** Two 9VDC @ 300mA with 1.3mm x 3.5mm center positive plug, and two 2.5mm male to RCA patch cables

Part No.	Description	1	10
265308CM	4-ch. wireless system	\$149.95	\$134.95

## 2.4GHz Wireless Audio/Video Transmitter

- Frequency range: 2413MHz to 2470MHz
- Impedance: 50Ω
- Output power: 1 watt
- Video input: 1Vp-p
- Audio input: 2Vp-p
- Size: 2.4"L x 1.9"W x 1.4"H

**Includes:** 12VDC @ 1A wall adapter, RCA patch cable, antenna and mounting hardware

- 179864CM:**
- For use with 2.4GHz cameras, transmitters and receivers • Gain: 3dB; unidirectional

Part No.	Description	1	10
289852CM	Wireless audio/video tran.	\$199.95	\$149.96
179864CM	2.4GHz SMA RF antenna	13.65	10.24
179872CM	Wireless extension cable	10.99	9.89

## 4-Channel 2.4GHz Wireless Audio/Video Receiver and 10mW Transmitter

### Make your camera wireless up to 492 feet!

- Transmission range: 492' (150M outdoors); 164' (50M indoors)
- 4-channel switch selectable on transmitter
- Output power (transmitter): 10mW
- Output impedance: 50Ω typical
- Video input: 1Vp-p composite
- Audio input: 2Vp-p max.
- RCA jacks for audio and video connectors

### Receiver:

- Non-volatile memory protects system set-up from power loss
  - Video loss detection and freeze channel
  - Mute and alarm trigger port • Weight: 1.8 lbs.
  - Size: (transmitter) 4.5"L x 3.2"W x 1.0"H
  - Size: (receiver) 6.5"L x 5.5"W x 1.4"H
- Includes:** RCA cable, 12VDC @ 500mA adapter, RCA to F connector adapter (receiver unit only)

Part No.	Description	1	10
192858CM	4-channel transmitter	\$94.45	\$85.05
192866CM	4-channel receiver	124.95	112.95

Check the performance of your wireless security systems with the ZAP checker - page 289.

## 4-Channel Digital Video Multiplex Recorder **SALE**

Record and monitor your security surveillance system with this 4-channel digital video multiplex recorder. Connect 4 cameras to this recorder, attach a monitor for viewing features, and connect your PC through the RS-232 interface to operate the recorder. Attach a RJ-45 cable for network connection, and install 1 or 2 hard disk drives to the recorder.

- TCP/IP with client software web interface
- Conventional VCR back up, remote back-up using TCP/IP, or internal back-up • Plug and play
- RS-232C, RS-485, 4-alarm input, 1 relay output
- Pan, tilt, zoom, and focus camera control

### Video I/F

- 4-channel input, 1Vp-p, 75Ω unbalanced BNC type connectors • 480 TV lines
- 16.7 million colors • S/N ratio: >48dB
- 4 output (BNC/SVHS/VGA type)

### Monitoring Method

- Split screen (full/quad display), zoom, PIP, sequence
- Screen quality: full screen - 720(H) x 480(V) active pixels; 1/4 screen - 360(H) x 240(V) active pixels

### Recording/Playback Function

- 30 frames/sec. maximum • JPEG compressed picture
- Quad screen recording or field switcher method
- Real time/time lapse/event record mode
- Search/still track play

**Includes:** Remote control, 12VDC @ 4.16A power supply, manual and software in CD-ROM

Part No.	Mfr. Part No.	1	10
320127CM	15-DVR04SAE-LAN	\$597.65	\$549.85

## Single Camera Digital Video Recorder



NTSC/PAL inputs from one camera. Records up to 20 pictures/second at a resolution of 720 x 240 or 360 x 240. Search by date, time, camera and alarm.

- 40GB HDD using MJPEG compression
- NTSC real-time display and motion (activity) detection
- Multiple recording modes • Alarm input and output
- 12VDC power supply included

Part No.	Product No	1	5
540648CM	DVR-X1 ♣	\$521.65	\$469.49

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Lowest Price Guarantee

Have you found a product at a lower print-advertised price? We'll beat that price by 10%, right down to our cost!



## Dual Page Color Quad Processor

- Signal format: NTSC/PAL color
- Display rate: 6-fps/50 fps
- No. of video input channels: 4 with loop
- Alarm input: 8
- Video inputs: 1Vp-p, 75Ω
- Video outputs selectable: 1Vp-p 75Ω (full screen or quad)
- Memory 1024 x 512
- Switching interval: 1 to 99 seconds
- Date time generator
- 7-character titles
- BNC video connectors
- Zoom definition: 2 x 2
- Size: 16.9"W x 1.8"H x 8.5"D




Part No.	Product No.	1	10
638240CM	15-QC43 	\$242.25	\$218.05

## Two-Station Wired Intercom

- Two-station, single-channel wired intercom. Push-to-talk and call buttons, on/off volume control, LED status indicators, and integrated solid state circuitry.
- Size: 3.25"H x 4.5"W x 1.25"D
- Includes: 9V battery and 50 foot cable



Part No.	Product No.	1	5
540437CM	BI-2SD 	\$26.79	\$24.10

## Audio Video Selector

- Auto audio/video selector with S-VHS inputs
- Automatically redirects signal to display active signal source
- 12VDC @ 200mA power supply included



**SALE**

Part No.	Mfr. Part No.	Size (WxDxH)	1	10
319142CM	200-465	9.7" x 5.9" x 2.1"	\$54.95	\$49.46

## Megaphones with Shoulder Straps

- M10M:** 10W handheld megaphone
  - Range: 200 meters
  - Size: 6.5"Dia. x 10.3"L
  - Power supply: 4 x 1.5V size D batteries (not included)
- M25SM:** 25W handheld megaphone
  - Range: 600 meters
  - Separate microphone with lock function
  - Choice between siren and speech
  - Microphone sensitivity: ±36dB
  - Frequency response: 500Hz to 8kHz
  - Power supply: 8 x 1.5 size D batteries (not included)
  - Size: 9" Dia. x 14"L



Part No.	Product No.	1	5
645431CM	M10M	\$52.85	\$50.19
645440CM	M25SM	85.45	81.19

## Mini Indoor Pan & Tilt Mechanism

- Continuous Pan**
  - Automatic scanning: 0° – 355° angular travel; pan clockwise and counter-clockwise
  - Manual tilt: 0° - 90°
  - Pan speed: 5°/sec.
  - Maximum load: 4.4 lbs.
  - Power consumption: 1 watt
  - Size: 2.5"Dia. x 2.4"H
  - Weight: 0.4 lbs.
  - Warranty: 2 years continuous use



Camera not included

Includes: 24V @ 150mA power supply, wall mount bracket and mounting hardware

Part No.	Description	1	10
215407CM	Mini pan/tilt 	\$49.95	\$37.46

## SMK RF Modulator

- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF modulator
- Operating voltage: 12V @ 50mA max.
- Video modulation: 1.0V p-p
- RF output impedance: 75Ω (F type connector)
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H
- Manufacturer No.: WMN2144-01



**SALE**

Part No.	Description	1	5	10
141639CM	RF modulator	\$2.15	\$1.93	\$1.74

## Audio/Video Adaptor

### CAT 5 UTP

- Converts impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Support both NTSC or PAL video signals
- Built-in impedance matching device and filter for audio and video signal transmission
- Use with existing wiring and wall jacks for easy and cost effective installation
- Video transmission distance: 1000' color/2000' black/white



- 210471CM/311124CM:**
  - Signal pair: video (BNC), CAT pair 1 (RJ45)

### 220880CM:

- Signal pairs: video (BNC), CAT pairs 4(RJ45); audio 1 (RCA); CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)



Includes: Mounting hardware

Part No.	Description	1	10
210471CM	BNC/RJ45 w/ cable	\$25.95	\$19.46
311124CM	BNC/RJ45	19.35	14.51
220880CM	BNC/RJ45	42.95	32.21

## Outdoor Metal Camera Enclosures

- Plate glass: 3mm thick
- Outdoor use
- 170931CM: without heater**
  - Clear window area: 2.5"W x 2.3"H
  - Max. camera size: 4.0"L x 2.4"W x 2.4"H
  - Size: 16.0"L x 4.9"W x 4.9"H
  - Weight: 2.8 lbs.
- 170940CM: w/ heater (keeps optics from fogging)**
  - Clear window area: 3.5"W x 3.1"H
  - Max. camera size: 6.5"L x 3.2"W x 3.2"H
  - Size: 11.0"L x 3.6"W x 3.6"H
  - Weight: 6.8 lbs.




Part No.	Description	1	10
170931CM	Camera housing 	\$28.45	\$21.34
170940CM	Camera housing w/ heater 	62.95	50.95

## Indoor Metal Camera Enclosure

- Clear window area: 2.2"W x 1.8"H
- Maximum camera size: 7.1"L x 2.6"W x 2.4"H
- Overall size: 11.7"L x 3.1"W x 2.7"H
- Weight: 1.5 lbs.



Part No.	Description	1	10
310691CM	Camera housing 	\$27.49	\$20.62

## SVGA Monitor Splitters

Duplicate a video signal from one source to monitors up to 210' away.

- Suitable for SVGA, VGA & multisync monitors

### 176866CM: 2-channel

- 1 HDDB15 male connector from PC to box; 2 HDDB15 female connectors from box to monitors



176866CM



### 133866CM: 4-channel

- Size: 6.6"L x 3.3"W x 1.1"H
- Weight: 1.4 lbs.
- Slide switch for video signal gain control
- Daisy chainable
- Size: 8.8"L x 6.0"W x 1.9"H
- Weight: 3.6 lbs.
- One-year warranty



133866CM

Includes: Power adapter and manual


Part No.	Description	1	10
176866CM	2-ch. monitor splitter 	\$49.95	\$37.46
133866CM	4-ch. monitor splitter 	59.95	51.66

## Video RF Modulator w/ S-VHS Input

Designed to convert separate audio and video signals from various video components.

- RF outputs: 3 or 4 channel switch selectable
- RF output impedance: 75Ω
- Video input impedance: 75 or 1kΩ
- Audio input impedance: 13 ±-3kΩ
- TV to antenna insertion loss 50 – 806MHz: -2dB
- Video carrier output level: 69dBuV






Part No.	Mfr. Part No.	Description	Price
319062CM	203-101 	Video RF modulator	\$14.95

## CCTV Power/Video Extension Cables

Power and video signal in one multipurpose cable! BNC to RCA. Available in 25, 50, and 150 foot lengths.





Part No.	Product No.	1	5
540453CM	CBL-25BB 	\$10.69	\$10.53
540461CM	CBL-50BB 	13.35	12.70
540445CM	CBL-150BB 	23.05	20.71

## Committed to You

We're committed to providing you with the best service in the industry.

◆ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)



## Mount your Video Camera almost anywhere

As steady as a tripod, the Window Camera Mount lets you anchor that video camera to any glass surface at any height.



Mount your video or CCTV camera on any window or other non-porous surface, and capture what you've never been able to before. This heavy-duty metal mounting bracket attaches securely to any glass surface with a strong lever-activated 3.25" neoprene suction cup. Mount your camera onto the tripod-style screw. Adjust to any position, and you're ready to shoot hands-free. It's perfect for temporary surveillance of your business or home. For cameras up to 3 lbs.

Part No.	Description	1	5
222746CM	CCTV camera window mount	\$32.49	\$29.25

## Mounting Brackets for Enclosed Camera

- Material: plastic
- Base mounted w/ 3 screws
- Swivel angle: 360°
- Tilt angle: 90°
- For use w/ enclosed cameras (P/N 150404CM, pg 275)

171002CM: Ivory  
170982CM: White



Part No.	Max Load (lbs.)	Ht. (in.)	1	10
171002CM	11 lbs. Ⓢ	6.4	\$4.69	\$3.52
170982CM	6.6 lbs. Ⓢ	2.0	5.49	4.12

## Camera Mounting Bracket

- Aluminum construction (white coated)
- Maximum load: 6.5lbs.
- Overall height: 5.1"
- Base diameter: 1.8"
- Swivel angle: 360°
- Tilt angle: 120°
- Base mounted w/ 3 screws (included)



Part No.	Description	1	10
311191CM	15-B009 Ⓢ	\$6.65	\$6.19

## Heavy Duty Camera Mounting Bracket

- Steel construction (white coated)
- Maximum load: 22 lbs.
- Overall length: 11.2"
- Base size: 3.8"L x 33.3"W
- Swivel angle: 360°
- Tilt angle: 90°



Includes: Base mounted w/ 3 screws

Part No.	Mfr. Part No.	1	10
320151CM	15-B006 Ⓢ	\$16.65	\$12.49

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## Honeywell

## Receptacle & Multimedia Wall Outlets



636818CM 636842CM 636869CM 636885CM 636906CM 636949CM 637001CM

Coax • Single RG6

Part No.	Product No.	Color	1	10
636818CM	REC-101CA	Almond	\$1.03	\$ .98

RJ-11 Telephone • Single RJ-11

Part No.	Product No.	Color	1	10
636842CM	REC-101TA	Almond	\$1.08	\$1.02
636877CM	REC-101TW	White	1.08	1.02

RJ-45 Telephone/Data • Single RJ-45

Part No.	Product No.	Color	1	10
636834CM	REC-101T5W	White	\$3.59	\$3.41
636826CM	REC-101T5A	Almond	3.59	3.41

RJ-11 Telephone Hanging • Single RJ-11

Part No.	Product No.	Color	1	10
636869CM	REC-101THW	White	\$2.19	\$2.05
636851CM	REC-101THA	Almond	2.19	2.05

Two Port Multimedia • RJ-45 and RG6

Part No.	Product No.	Color	1	10
636885CM	REC-102A	Almond	\$4.59	\$4.34
636893CM	REC-102W	White	4.59	4.34

See page 275 for our Enclosed Cameras.



## Honeywell

## Accessories

Icons for CAT5 Inserts

• Wheel of 16

Part No.	Product No.	Description	1	10	100
636092CM	IIDT	Computer data icons	\$2.29	\$2.07	\$1.88
636105CM	IITP	Telephone/voice icons	1.85	1.76	1.67

CAT5e Bezel • Pack of 10

Part No.	Product No.	Description	1	10	100
636113CM	INS-BZ50	Orange bezel for CAT5e	\$ .26	\$ .246	\$ .221

CAT5e Bezels • Pack of 10

Part No.	Product No.	Description	1	10	100
636121CM	INS-C5P	RJ45 w/ blue bezel	\$3.05	\$2.90	\$2.75
636130CM	INS-C5RA	RJ45 w/ almond bezel	3.19	3.02	2.87
636148CM	INS-C5RW	RJ45 w/ white bezel	3.19	3.02	2.87

RG6 Connectors w/ Bezel • Pack of 10

Part No.	Product No.	Description	1	10	100
636156CM	INS-CXP	RG6 w/ bezel	\$ .88	\$ .83	\$ .79
636164CM	INS-CXRA	F conn. w/ almond bezel	.99	.94	.89
636172CM	INS-CXRW	F conn. w/ white bezel	.99	.94	.89

## Mini Alarm Siren

- Sound pressure: 108dB
- Output frequency: 3000Hz
- Rated: 2-12VDC @ 300mA
- Adjustable mounting plate
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L



Part No.	Description	1	10	50
148152CM	Alarm siren	\$8.95	\$7.99	\$6.35

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time.

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**Honeywell**

## Future Smart Distribution Panels and Modules

### AN-100 Basic Distribution Panel

Designed for installations where space is a premium. This economical panel provides distribution of voice and video signals throughout the home.

- Triple gang install ring and cover
- Video distribution: 1 line to 4 locations
- Telephone distribution: 4 lines to 6 locations (110 punch down)
- Size: 6.5"W x 4.75"H
- Coax distribution: 1 in, 4 out
- Supports cable type CAT3, CAT5 or CAT5e twisted pair, RG59 or RG6 coax cable



**NEW**

Part No.	Product No.	1	10
635882CM	AN-100	\$32.55	\$30.91

### MDT-122P/MDT-124P Telephone Distribution Modules

These versatile, full featured telephone distribution modules are designed to provide user-friendly management and control of telephone and data signals throughout the office or home. With built-in surge suppression, your phones and modems will be protected against bothersome power surges and spikes. These modules distribute signals to phones, fax machines, answering machines, caller ID's, and computer modems. High quality broadband designs and components are used throughout, assuring quality distribution from source to receiver.

- Module size: 12" (requires two expansion bays)
- Input: 2 pairs (2 lines)
- Output: 11 locations (12 when used with KSU)
- Wire: CAT3, CAT5 or CAT5e UTP
- Max. line voltage: 280V
- Max. surge amperage: 200A
- Standard: USOC
- Protection modes: TG, RG
- UL497A rating
- Category A ringwave (L-N) 200A: 300V



**NEW**

#### MDT-122P:

- Input: 2 pairs (2 lines)
- KSU/PBX interface: one 25-pair Amphenol/Telco connector

#### MDT-124P:

- RJ31x port for a quick and convenient connection to a security system
- Comes standard with the QNP6X, QNP12X and QNP18X distribution panels
- Input: 2 pairs (2 lines)
- RJ31x port
- KSU/PBX interface: two 25-pair Amphenol/Telco connector

Part No.	Product No.	Description	1	10
636412CM	MDT-122P	11 outputs	\$82.35	\$78.24
636439CM	MDT-124P	11 outputs, RJ31x	163.85	155.64

Our goal is to provide you with what you want. Please send requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

### MDT8-RJ/MDT16-RJ Telephone Distribution Modules

These telephone distribution modules are versatile, full featured modules designed to provide user-friendly management and control of telephone and data signals throughout the office or home. A built-in RJ31x port provides a quick and convenient connection to a security system. These modules distribute signals to phones, fax machines, answering machines, caller ID's, and computer modems. High quality broadband designs and components are used throughout, assuring quality distribution from source to receiver.



**NEW**

- Module size: 6" (requires one expansion bay)
- Input: 4 pairs, 110 punch down blocks
- Output: 8 locations (MDT8-RJ) 16 locations (MDT16-RJ), RJ-45 and an RJ31x port
- Standard: USOC
- Wire: CAT3, CAT5 or CAT5e UTP

Part No.	Product No.	Description	1	10
636463CM	MDT8-RJ	8 phone outputs	\$33.39	\$31.69
636447CM	MDT16-RJ	16 phone outputs	48.45	46.01

### MDX-48300/MDX-88300 Coax & Telephone Distribution Modules

These modules provide distribution of voice, data, and video signals throughout the office or home.



**NEW**

- Module size: 6" (requires one expansion bay)
- Coax bandwidth: 1GHz
- Coax forward path: 54 - 1000MHz
- Coax return path: 5 - 40MHz
- Telephone inputs: 4 lines, 110 punch down block
- Telephone outputs: 8 locations, 110 punch down block, and an RJ31x port
- Coax inputs: 1 TV/CATV, 2 pass-throughs for SATV & CCTV
- Supported cable: CAT3, CAT5 or CAT5e twisted pair, and RG59 or RG6 coax cable

**Includes:** RJ31x port for a security system

#### MDX-48300: with QND-4800 distribution panel

- Video distribution: 1 line to 4 locations
- Coax output: 4 locations

#### MDX-88300: with QND-8800 distribution panel

- Video distribution: 1 line to 8 locations
- Coax output: 12dB amplifier to 8 locations

Part No.	Product No.	Description	1	10
636471CM	MDX-48300	4 coax outputs	\$40.19	\$38.18
636498CM	MDX-88300	8 coax outputs	46.39	44.05

### MDT-124HB Punch Down Telephone Module for KSU

#### 12-Port, 4 Line

- 12 110-punch down blocks which distribute four incoming lines to 12 locations
- 6" form factor



**NEW**

Part No.	Product No.	1	10
636421CM	MDT-124HB	\$40.19	\$38.18

### MDT-083P Telephone Module

#### 8-Port, 3-Line

RJ-11 harmonica style twisted pair module is designed to work with Panasonic Key Service Units (KSU) that require a three pair connection

- 6" form factor



**NEW**

Part No.	Product No.	1	10
636404CM	MDT-083P	\$81.45	\$77.33

### MDRP-114 Web Safe Internet Router

The MDRP-114 Cable/DSL fire-wall internet router provides internet security for homes and small offices. With keyword and website parental control, parents can block websites that contain offensive content. The MDRP-114 also allows parents to control when and how long the internet is used. The router includes network address translation (NAT), which provides the first line of defense against computer hackers. Additionally, the router will keep a record or attempts to access restricted material or websites, or attempts to hack into your computer, and notify you via email. This will also allow you to share high speed cable/DSL internet access with as many as 253 users.



**NEW**

- 4 RJ45 10/100 auto switching ports
- DHCP (dynamic host configuration protocol) for simplifying LAN configurations
- Hub size: 6.25"W x 4"D x 1.25"H single height (requires one expansion slot)
- Routing protocols: TCP/IP, RIP-1, RIP-2, NAT, DHCP, PPTP, PPPoE, IPSec
- Power adapter: 12VDC @ 1.2A
- 5 RJ-45 ports with 1 cascade RJ-45 port
- Interface: LAN - 10BaseT or 100BaseTX; WAN 10BaseT

Part No.	Product No.	1	10
636383CM	MDRP-114	\$196.85	\$186.96

### Security & Custom Electronics

**Quicknetwork Panels** Provide customizable solutions for every lifestyle.

**Entry Level Panels** Design for applications where space is limited.

#### Multimedia Cable

Connects distribution panels to multimedia wall outlets located throughout your home.

**Options for Connecting Video, Entertainment Systems, Security, Telephone, Automation & Home Office**

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See Complete Honeywell Offering at [www.Jameco.com/Prod/Security](http://www.Jameco.com/Prod/Security)

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See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications

Color Code Legend  
New Sale Lower\$ QtySave

See [www.Jameco.com/DMM](http://www.Jameco.com/DMM) for accuracy and complete specifications

EXTECH

- Extech MN35
- 2000 count
  - 5 functions
  - Temperature function



P/N 645618CM  
\$18.99

MASTECH

- Mastech M300
- 2000 count
  - 6 functions
  - Extremely low cost



P/N 220812CM  
\$9.79

velleman

- Velleman DVM850BL
- 2000 count
  - 6 functions



P/N 355207CM  
\$16.75

JAMECO

- Jameco JE110
- 2000 count
  - 6 functions
  - 100µV resolution



P/N 119212CM  
\$19.95

JAMECO BenchPro

- BP-1562
- 2000 count
  - 6 functions



P/N 318781CM  
\$9.95

MASTECH

- Mastech MAS830L
- 2000 count
  - 7 functions
  - Continuity test



P/N 220759CM  
\$13.95

MASTECH

- Mastech MAS838
- 2000 count
  - 8 functions
  - Temperature



P/N 220741CM  
\$19.95

JAMECO BenchPro

- BP-1206
- 2000 count
  - 8 functions
  - Auto-zero



P/N 27116CM  
\$31.69

EXTECH

- Extech MV110
- 2000 count
  - 8 functions
  - Tilttable display



P/N 197958CM  
\$36.95

METEX®

- Metex M3800
- 2000 count
  - 8 functions
  - Auto-zero



P/N 27115CM  
\$39.95

MASTECH

- Mastech MY64
- 2000 count
  - 11 functions
  - Temp. & frequency



P/N 220775CM  
\$38.79

				Basic Measurement Functions												Test Functions				Special Functions								
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
645618CM	Extech MN35	2000	5	100µV	200m - 600	200 - 600	200m - 10	—	200 - 20M	—	—	↔	—	-20 to 750	-40 to 1400	✓		✓						5.4 x 2.8 x 1.5	645618CM	\$18.99	\$18.05	
220812CM	Mastech M300	2000	6	1mV	2 - 500	200 - 500	200mA	—	2k - 2M	—	—		—	—	—	—	✓		✓						4.7 x 2.7 x 0.8	220812CM	9.79	8.85
355207CM	Velleman DVM850BL	2000	6	100µV	200m - 100	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓						5.4 x 2.7 x 1.2	355207CM	16.75	15.92
119212CM	Jameco JE110	2000	6	100µV	200m - 1000	200 - 750	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓			✓					4.8 x 2.6 x 1.0	119212CM	19.95	15.96
318781CM	BenchPro BP-1562	2000	6	100µV	200m - 600	200 - 750	200µ - 10	—	200 - 2M	—	—	↔	—	—	—	✓			✓					5.4 x 2.7 x 1.2	318781CM	9.95	9.45	
220759CM	Mastech MAS830L	2000	7	100µV	200m - 600	200 - 600	200µ - 10	—	200 - 2M	—	—		—	—	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220759CM	13.95	13.24
220741CM	Mastech MAS838	2000	8	100µV	200m - 600	200 - 600	2m - 10	—	200 - 2M	—	—		—	-20 to 1000	—	—	✓		✓	✓					5.7 x 3.0 x 1.4	220741CM	19.95	15.96
27116CM	BenchPro BP-1206	2000	8	100µV	200m - 1000	200m - 700	20µ - 10	20µ - 10	200 - 20M	—	—		—	—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27116CM	31.69	28.85
197958CM	Extech MV110	2000	8	100µV	200m - 1000	200m - 750	20µ - 10	20µ - 10	200 - 200M	—	—	↔	—	—	—	✓		✓	✓					7.3 x 3.5 x 1.3	197958CM	36.95	35.19	
27115CM	Metex M3800	2000	8	100µV	200m - 1000	200m - 700	20µ - 20	20µ - 20	200 - 20M	—	—		—	—	—	—	✓		✓	✓					6.8 x 3.5 x 1.4	27115CM	39.95	35.95
220775CM	Mastech MY64	2000	11	100µV	200m - 1000	200m - 700	2m - 10	2m - 10	200 - 200M	2n - 20µ	—		2k - 20k	-20 to 1000	—	—	✓		✓	✓					7.4 x 3.6 x 1.3	220775CM	38.79	34.91
645571CM	Velleman DVM890F	2000	11	100µV	200m - 1000	2 - 700	2m - 20	20m - 20	200 - 200M	2000p - 20µ	—		—	—	-58 to 1832	—	✓		✓	✓					6.7 x 3.5 x 1.5	645571CM	36.95	35.15
177480CM	AEEC 2890	2000	11	100µV	200m - 1000	2 - 700	2m - 10	200m - 10	200 - 20M	2n - 20µ	—	↔	20k	-20 to 1000	—	✓		✓	✓					8.0 x 4.0 x 2.0	177480CM	52.95	47.25	
182035CM	Fluke 73-III	3200	9	100µV	320m - 600	320m - 600	320m - 10	320m - 10	320 - 32M	—	—		—	—	—	—	✓		✓		✓	✓			6.6 x 3.0 x 1.1	182035CM	189.89	180.39
220767CM	Mastech MY68	3260	12	100µV	326m - 1000	3.26 - 700	326µ - 10	326µ - 10	326 - 32.6M	326n - 32.6µ	—		32.6k - 150k	—	—	—	✓		✓	✓					7.4 x 3.6 x 1.3	220767CM	35.95	32.36
645626CM	Extech EX330	4000	9	100µV	.1m - 1000	.1m - 750	.1µ - 10	.1µ - 10	.1 - 40M	.001n - 200µ	—		.001 - 10M	-50 to 1000	-58 to 1832	—	✓		✓						5.7 x 2.9 x 1.6	645626CM	47.45	45.15
216514CM	Metex ME-31	4000	10	100µV	400m - 1000	400m - 750	4m - 20	4m - 20	400 - 4M	—	—	↔	—	—	—	✓		✓		✓		✓		7.3 x 3.3 x 1.5	216514CM	56.95	54.15	
211650CM	Extech MN26	4000	11	100µV	400m - 600	400m - 600	400µ - 10	400µ - 10	400 - 40M	4n - 200µ	—		10 - 10M	0 to 760	0 to 1400	—	✓		✓	✓					4.8 x 2.4 x 1.6	211650CM	39.95	37.95
117373CM	BenchPro BP-1949	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	—	✓		✓	✓			✓		7.7 x 3.6 x 1.6	117373CM	89.95	67.46
137462CM	BenchPro BP-1737	4000	11	100µV	400m - 400	4 - 400	400µ - 10	400µ - 10	400 - 4M	50n - 100µ	—		5 - 50k	-20 to 1000	—	—	✓		✓	✓			✓		7.7 x 3.6 x 1.6	137462CM	119.95	89.96
117372CM	Metex M3850D	4000	14	100µV	400m - 1000	400m - 750	400µ - 20	400µ - 20	400 - 40M	4n - 400µ	—	↔	4k - 40M	-40 to 1200	—	✓		✓	✓		✓			7.2 x 3.3 x 1.8	117372CM	104.95	99.69	
215589CM	Metex M3890D	4000	15	100µV	400m - 1000	4 - 750	400µ - 20	400µ - 20	400 - 40M	4n - 200µ	—		4k - 4M	-40 to 1200	-40 to 2192	—	✓	✓	✓	✓		✓	✓		7.8 x 3.5 x 1.7	215589CM	99.95	94.99

\* with non-contact voltage detector (100-600VAC range)

Blue Part No. = Limited Quantity Available

DMMs continued on pages 282-283.

DMMs continued on pages 282 – 283.

velleman

- Velleman DVM890F
- 2000 count
  - 11 functions



P/N 645571CM  
\$36.95

AEEC

- AEEC 2890
- 2000 count
  - 11 functions
  - Temp./frequency
  - Tilttable display



P/N 177480CM  
\$52.95

FLUKE

- Fluke 73-III
- 3200 count
  - 9 functions
  - Autorange/frequency
  - Analog bargraph



P/N 182035CM  
\$189.89

MASTECH

- Mastech MY68
- 3260 count
  - 12 functions
  - Autorange
  - Analog bargraph



P/N 220767CM  
\$35.95

EXTECH

- Extech EX330\*
- 4000 count
  - Non-contact AC voltage detector
  - 9 functions



P/N 645626CM  
\$47.45

METEX®

- Metex ME-31
- 4000 count
  - 10 functions/RS232
  - Autorange
  - Analog bargraph



P/N 216514CM  
\$56.95

EXTECH

- Extech MN26
- 4000 count
  - 11 functions
  - Autorange
  - Temp./frequency



P/N 211650CM  
\$39.95

JAMECO BenchPro

- BP-1949
- 4000 count
  - 12 functions/RS-232
  - Autorange
  - Temp./frequency



P/N 117373CM  
\$89.95

JAMECO BenchPro

- BP-1737
- 4000 count
  - 12 functions/RS-232
  - Autorange
  - Temp./frequency



P/N 137462CM  
\$119.95

METEX®

- Metex M3850D
- 4000 count
  - 14 functions/RS-232
  - Autorange
  - Temp./frequency



P/N 117372CM  
\$104.95

METEX®

- Metex M3890D
- 4000 count
  - 15 functions/USB
  - Autorange
  - Temp./frequency



P/N 215589CM  
\$99.95



FLUKE

- Fluke 110**
- 6000 count
  - 10 functions
  - Autorange
  - Min/Max/Avg

- Fluke 111**
- 6000 count
  - 12 functions
  - Autorange
  - Current

- Fluke 112**
- 6000 count
  - 12 functions
  - Autorange
  - Backlit display
  - Current



P/N 190967CM    P/N 190975CM    P/N 185527CM  
\$129.89    \$149.89    \$169.89

FLUKE

- Fluke 175**
- 6000 count
  - 12 functions
  - Autorange
  - Frequency



P/N 192655CM  
\$219.89

FLUKE

- Fluke 179**
- 6000 count
  - 13 functions
  - Autorange
  - Temperature
  - Frequency



P/N 185535CM  
\$239.89

WAVETEK Meterman

- Wavetek/MM 37XR**
- 10,000 count
  - 14 functions
  - Inductance
  - Autorange
  - dB display



P/N 222527CM  
\$129.49

WAVETEK Meterman

- Wavetek/MM 38XR**
- 10,000 count
  - 14 functions/RS232
  - Autorange
  - Temperature
  - Frequency



P/N 222543CM  
\$149.49

MASTECH

- Mastech MY65**
- 20,000 count
  - 8 functions
  - Capacitance



P/N 136590CM  
\$73.49

JAMECO BenchPro

- BP-1415**
- 20,000 count
  - 8 functions
  - Capacitance



P/N 318764CM  
\$73.49

METEX

- Metex M4640A**
- 20,000 count
  - 12 functions
  - 4 displays
  - Frequency



P/N 144872CM  
\$132.95

FLUKE

- Fluke 187**
- 50,000 count
  - 11 functions
  - Autorange
  - Temperature
  - Frequency



P/N 222375CM  
\$419.89

FLUKE

- Fluke 189**
- 50,000 count
  - 13 functions
  - Data logging
  - Temperature
  - Frequency



P/N 182043CM  
\$429.89

DMMs continued from pages 280-281.

DMMs continued from pages 280-281.				Basic Measurement Functions													Test Functions				Special Functions				DMMs continued from pages 280-281.			
Jameco Part No.	Product No.	Display Count	No. of Functions	Resolution (max DC)	DC Voltage Ranges (V)	AC Voltage Ranges (V)	DC Current Ranges (A)	AC Current Ranges (A)	Resistance Ranges (Ω)	Capacitance Ranges (F)	Inductance Ranges (H)		Frequency Ranges (Hz)	Temperature Range		Diode Test	Logic Test	Continuity Test	Transistor hFE Test	Autorange	Analog Bargraph	RS-232 PC Interface	True RMS	Size (H"xW"xD")	Jameco Part No.	Pricing		
														°C	°F											1	5	
190967CM	Fluke 110	6000	10	1mV	6 - 600	6 - 600	—	—	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190967CM	\$129.89	\$123.29	
190975CM	Fluke 111	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—		99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	190975CM	149.89	142.39	
185527CM	Fluke 112	6000	12	1mV	6 - 600	6 - 600	6 - 10	10	600 - 40M	1000n - 10,000μ	—	↔	99.99 - 50k	—	—	✓		✓		✓	✓		✓	11.8 x 7.0 x 3.0	185527CM	169.89	161.39	
192655CM	Fluke 175	6000	12	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	—	—	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	192655CM	219.89	208.89	
185535CM	Fluke 179†	6000	13	100μV	600m - 1000	600m - 1000	60m - 10	60m - 10	600 - 50M	1000n - 9999μ	—		99.99 - 99.99k	-40 to 400	-40 to 752	✓		✓		✓	✓		✓	7.3 x 3.5 x 1.7	185535CM	239.89	227.89	
645562CM	Velleman DVM205AM‡	10,000	7	100μV	400m - 100V	400m - 750	400m - 10	400m - 10	400 - 40M	40n - 100μ	—		9.999 - 9.999M	-20 to 760	-4 to 1400	✓		✓		✓	✓		✓	6.2 x 3.0 x 1.8	645562CM	61.69	59.55	
222527CM	Wavetek/MM 37XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	4m - 40	↔	100 - 10M	—	—	✓	✓	✓		✓	✓		✓	7.8 x 3.6 x 2.4	222527CM	129.49	122.99	
222543CM	Wavetek/MM 38XR	10,000	14	100μV	1000m - 1000	1000m - 750	100m - 10	100m - 10	1000 - 40M	40n - 400μ	—	↔	100 - 10M	-20 to 1300	-4 to 2372	✓		✓		✓	✓	✓	✓	7.8 x 3.6 x 2.4	222543CM	149.49	141.99	
136590CM	Mastech MY65 ☼	20,000	8	10μV	200m - 1000	2 - 700	2m - 10	2m - 10	200 - 200M	200p - 20μ	—		—	—	—			✓	✓				✓	7.4 x 3.6 x 1.2	136590CM	73.49	66.15	
318764CM	BenchPro BP-1415	20,000	8	10μV	200m - 1000	2 - 700	2m - 20	2m - 20	200 - 200M	2000p - 20μ	—		20k	—	—	✓		✓	✓				✓	7.4 x 3.6 x 1.2	318764CM	73.49	66.15	
144872CM	Metex M4640A	20,000	12	10μV	200m - 1000	200m - 750	2m - 20	2m - 20	200 - 20M	20n - 200μ	—		20k - 2M	—	—	✓		✓	✓		✓	✓	✓	7.5 x 3.3 x 1.5	144872CM	132.95	126.35	
222375CM	Fluke 187	50,000	11	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—	↔	500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	222375CM	419.89	398.89	
182043CM	Fluke 189	50,000	13	1μV	50m - 1000V	50m - 1000	500m - 10	500m - 10	500 - 500M	1n - 50μ	—	↔	500 - 999.99k	-200 to 1350	-328 to 2462	✓		✓		✓	✓		✓	8.0 x 3.9 x 2.0	182043CM	429.89	403.39	

† with backlight    ‡ see page 284 for photo    ☺ Blue Part No. = Limited Quantity Available

EXTECH

Passive-Component Digital LCR Meter

- 4½-digit backlit LCD display
- Measures L, C, and R with secondary parameter Q, D or R; both are displayed
- **Inductance ranges:** 2000μH to 10,000H
- **Capacitance ranges:** 2000pF to 10mF
- **Resistance ranges:** 20Ω to 10MΩ
- Selectable parallel or series equivalent circuit
- Set HI/LO limits, absolute or percentage
- Bidirectional RS-232 port with optional software
- Max./Min./Avg. recording with auto power off
- Accuracy of 0.7% for L & C, 0.5% for R
- Test frequencies of 120Hz and 1kHz
- Dissipation Factor (D) reading: 0 to 0.9999
- Quality (Q) reading: 0 to 9999
- Size: 3.6"W x 2.1"D x 7.6"H • Weight: 0.8 lbs.

**Includes:** Test leads, alligator clips, 9V battery & holster

Part No.	Description	1	10
198678CM	LCR Meter	\$178.95	\$160.95
189238CM	9VDC @ 300mA adapter	4.79	4.31

FLUKE

AC Voltage Detector and LED Flashlight

Quickly test and trace a circuit without dragging out that huge DMM and extra flashlight! This non-contact AC voltage detector and LED flashlight is combined in one convenient, compact design. The voltage detector glows blue when it's near AC voltage, and glows red when it's at the source. Detects voltages from 40VAC to 300VAC. Voltage detector glows blue 50Hz – 60Hz or 2.5 – 38cm (1 - 15") away from source. Ultra-bright white LED with 100,000 hour bulb life.

**Includes:** AAA battery

Part No.	Product No.	1	3
667526CM	LVD1	\$26.95	\$25.60

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MASTECH

15A AC Line Separator for AC Current Clamp Meters

- Max. overload: 250VAC@15A
- X1 and X10 clamp areas
- Socket compatible with US & European connectors
- Convenient 0.1" dia. tip test points for neutral/earth/line

Part No.	Description	1	10	25
162325CM	3-prong US-type plug ...	\$9.99	\$8.99	\$8.09

High Voltage AC/DC Test Probe

- Maximum voltages: DC: 40kV, AC: 40kV peak, 28kVrms
- Accuracy: DC: ±1.5%, AC: ±5%
- 10MΩ meter input impedance required
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39" • Probe length: 14" • Wt: 0.8 lbs.

Part No.	Description	1	10
132290CM	High volt. test probe ☺	\$79.95	\$72.95

Mini DC/AC 2000-Count Clamp Meter/Multimeter

- Bright 1/2" LCD
- DATA HOLD
- 0.5" digit height
- Compatible with P/N 162325CM, pg 282
- Size: 7.1"L x 1.9"W x 1.4"H
- Weight: 0.9 lbs.

**Requires:** 9V battery not included (P/N 151095CM, pg 251)

**Includes:** Test leads, manual and case

Part No.	Description	1	10
115756CM	Mini DC/AC clamp meter ....	\$119.95	\$107.95

50mV/50A Current Shunt

- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Max. current: 100A

Part No.	Description	1	10	25
162309CM	Current shunt ☺	\$24.95	\$22.49	\$19.95



ACA*	20A 200A	±1.2%+5d
DCA	200A	±1.2%+5d
ACV*	500V	±1.0%+2d
DCV	200V	±0.8%+1d
Resistance	200Ω	±1.2%+1d
*Frequency Response	40-400Hz	
Zero Adjust	External knob for DCA	



EXTECH

400A AC/DC Clamp Meters/Multimeters

- Auto ranging with auto power-off
- Continuity beeper and diode test
- Over range and low battery indicators
- Data hold freezes current reading on display
- **Includes:** Test leads, case, and 2 AAA batteries

**373991CM (MA200):**

- 2000 count LCD display
- Measure AC current, DCV, ACV, and resistance
- **AC current ranges:** 2A–400A; 0.001A max. res.
- Basic current accuracy: ±2.5%
- **DC/AC voltage ranges:** 200mV – 600V; 0.1mV max. res.
- Basic voltage accuracy: AC: ±1.5%; DC: ±1.2%
- **Resistance:** 200Ω – 20MΩ; 0.1Ω max. res.

**374070CM (MA220):**

- 4000 count LCD display
- One touch "Auto Zero"
- Measures AC/DC current, DCV, ACV, resistance, capacitance, frequency, temperature, and duty cycle
- Basic current accuracy: AC: ±3.0%; DC: ±2.5%
- Basic voltage accuracy: AC: ±2.0%; DC: ±1.5%
- **AC/DC current ranges:** 40A–400A; 0.01A max. res.
- **DC/AC volt. ranges:** 400mV–600V; 0.1mV max. res.
- **Frequency ranges:** 5Hz–150kHz; 0.001Hz max. res.
- **Temperature ranges:** -58° to +1830°F (-50° to +1000°C); 1° max. resolution
- **Capacitance ranges:** 40nF–1000μF; 0.01nF max. res.
- **Resistance:** 400Ω–40MΩ; 0.1Ω resolution
- **Duty cycle:** 0.5%–0.99%; 0.1% max. res.

Part No.	Product No.	Description	1	5
373991CM	MA200	400A AC current clamp meter/multimeter	\$36.95	\$35.10
374070CM	MA220	400A AC/DC current clamp meter/multimeter	74.95	71.20





## Automotive Digital Multimeter

- RPM (2/4/5/6/8 cylinder) range: 0 – 10,000RPMs
- Dwell angle: 0-180°
- Temperature ranges: -20°C to +760°C (-4°F to 1400°F)
- Large 4-digit backlight LCD display (1" character height)
- Resolution: 100µV max.
- DC voltage ranges: 400mV to 100V
- AC voltage ranges: 400mV to 750V
- DC / AC current ranges: 400µA to 10A
- Resistance ranges: 400Ω to 40MΩ
- Capacitance ranges: 40nF to 100µF
- Frequency ranges: 9.999Hz to 9.999MHz
- Auto/Manual selection range
- Diode and continuity tests
- Data hold + relative function
- Size: 6.2"H x 3.0"W x 1.8"D
- Auto power off
- Overload protection
- Weight: 1.3 lbs.

Includes: Manual, 9V battery, test/temp. probes

Part No.	Product No.	1	10	25
645562CM	DVM205AM	\$61.69	\$59.55	\$56.59



## 4000-Count True-RMS Benchtop Multimeter with RS-232

- 9 functions, 32 ranges
- 3½-digit backlit LCD display with bargraph
- Auto/manual ranging
- True RMS AC volts and amps
- Resolution: 100µV maximum
- DC voltage ranges: 400mV – 1000V (0.3% accuracy)
- AC voltage ranges: 4V – 750V
- DC/AC current ranges: 4mA – 10A
- Resistance ranges: 400Ω – 40MΩ
- Capacitance ranges: 4nF – 40µF
- Frequency ranges: 100Hz – 600kHz
- Diode and continuity test
- Min., max., and relative hold function
- Input voltage: 9V battery or 90-132VAC/198-264VAC @ 50-60Hz
- Size: 9.0"W x 9.4"D x 3.3"H
- Delay hold mode
- Weight: 3.3 lbs.
- Two-year warranty

Includes: Manual, test leads, power adapter, 9V battery, RS-232 cable and software (98/ME/2000/XP compatible)

Part No.	Product No.	1	5
230586CM	B940	\$148.95	\$141.55



Protek

## 2000-Count Multimeters

- Resolution: 100µV maximum
- DC voltage ranges: 200mV – 1000V
- Size: 7.5"W x 9.6"D x 2.5"H
- Weight: 2.6 lbs.

160830CM: 3 1/2-Digit

- DC/AC current ranges: 20µA – 10A
- AC voltage ranges: 200mV – 700V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2µS – 200nS
- 421542CM: 3 1/2-Digit
- DC/AC current ranges: 200µA – 2A
- AC voltage ranges: 200mV – 750V
- Resistance ranges: 200Ω – 20MΩ
- Conductance ranges: 2mS – 200nS
- Frequency ranges: 20Hz – 50kHz

✦ Refurbished = Backed by Jameco

Part No.	Product No.	Price
160830CM	8010A✦	\$199.95
421542CM	8050A✦	\$219.95



FLUKE

## 20,000-Count True-RMS Benchtop Multimeter

- 4½-digit green LCD
- DC accuracy: 0.05%
- Full overload protection
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 10A
- Resistance ranges: 200Ω – 20MΩ
- Frequency measurement up to 200kHz
- Continuity check with beeper
- Data hold, diode check, transistor h<sub>FE</sub> measurement available
- Size: 9.9"L x 9.8"W x 3.6"H
- Weight: 6.1 lbs.
- One-year manufacturer's warranty

Part No.	Product No.	1	10	25
132564CM	DM441	\$269.95	\$256.49	\$243.49



EZ DIGITAL

## 20,000-Count Benchtop Multimeter w/ RS-232, Analog Bar & 4 Displays

- Automatic polarity indicator
- 1-2 readings/second
- DC accuracy: 0.1% +5 digits
- 10 reading storage and compare
- Resolution: 10µV max.
- DC voltage ranges: 200mV – 1000V
- AC voltage ranges: 200mV – 750V
- DC/AC current ranges: 2mA – 20A
- Resistance ranges: 200Ω – 20MΩ
- Frequency ranges: 20kHz – 20MHz
- Min., max., average, relative functions
- Logic, diode, transistor h<sub>FE</sub> and continuity test
- Size: 11.2"L x 8.2"W x 3.2"H
- Weight: 7.5 lbs.

Includes: Manual, power cable, probes and software

Part No.	Product No.	1	10
166852CM	MXD4660A	\$249.95	\$224.95



METEX

## Handheld 2MHz Digital Oscilloscope with 3½-Digit Multimeter

- 10MHz for repetitive signals; 2MHz for single shot events
- Input impedance: 1MΩ/20pF
- Max. input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference)
- LCD graphics display: 64 x 128 pixels
- Vertical resolution: 8-bit
- Timebase range: 0.2µs to 1 hr./div
- Input sensitivity: 5mV to 20V/div
- Linearity: ±1 bit
- Screen hold
- Trigger mode: run, normal, once, and ± slope
- True RMS and dB measurements
- High contrast 3.3" diagonal LCD display
- Recommend 9VDC @ 300mA power supply (133891CM, pg 241)
- Weight: 1.0 lb.
- Batteries not included

Includes: DVM850 multimeter (below) and insulated BNC-to-alligator clip measurement probes

### 6-Function Multimeter:

- 3½ digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600
- DC current ranges: 200µA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

Part No.	Description	1	5
355485CM	2MHz Oscilloscope w/ DMM (HPS10 + DVM850)	\$194.95	\$185.25



Velleman



355207CM (DVM850) can be purchased separately, pg 281

Free DMM!

## Handheld 5MHz Digital Oscilloscope with true-RMS Multimeter

- 5MHz bandwidth
- Record length: 512 single shot, 256 all other functions
- Sample mode: single shot, roll, normal
- Vertical sensitivity: 50mV max.
- Input volt.: 600VDC or AC RMS max.
- Trigger modes: auto, normal, single
- Trigger source: channel A, channel B, external
- Trigger coupling: AC, DC
- Timebase: 1µS to 5S
- Input impedance: 1MΩ
- Sampling time: 25MS/s dual channel; 50MS/s single channel
- 132 x 128 pixel super-twist two level backlit display
- Data hold and low battery indications
- RS-232 PC interface and software for transferring waveforms and data
- Resolution: 100uV max.
- DC voltage ranges: 0.001V to 1000V
- AC (TRMS) voltage ranges: 0.001V to 750V
- Resistance ranges: 1Ω to 5MΩ
- Frequency ranges: 0.01Hz to 10MHz
- RPM ranges: 240 to 60,000 RPMs
- Size: 3.5"W x 1.8"D x 7.7"H

Includes: Test leads, alligator clips, Ni-MH battery pack, AC adaptor/charger, RS-232 cable, holster, and carrying case.

Part No.	Product No.	1	5
645651CM	381295	\$427.49	\$406.15



EXTECH

Detailed specifications for Oscilloscopes at [www.Jameco.com/OScopes](http://www.Jameco.com/OScopes)

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Place your order by 6PM EST for same business-day shipment.

## 2MHz Panel Mount Oscilloscope

This compact scope at only 1.4" deep is perfect for continuous monitoring and system analysis.

- High contrast LCD display with backlight, 128 x 64 pixels
- Maximum sample rate: 10MHz for repetitive signals (2MHz for single shot events)
- Maximum input amplifier bandwidth: 2MHz
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100Vpeak (AC+DC); 200Vp-p (AC only)
- Input coupling: DC, AC, and GROUND
- Vertical resolution: 8-bit
- Trigger modes: Run, normal, roll mode for 1s/div and slower time base
- Signal storage: 256 samples max., 125 samples visible
- dBm measurement: -73dB to 40dB\*
- dBV measurement: -75dB to 38dB\*
- True RMS measurement: 0.1mV to 80V\*
- Peak to peak AC range: 0.1mV to 160V\*
- Timebase ranges in 32 steps: 0.2uS to 1 hour/division
- Input sensitivity ranges in 12 steps: 5mV to 20V/division @ x1; 50mV to 200V/division @ x10
- Input voltage: 6VAC or 9VDC@300mA
- Size: 6.5"W x 3.5"H x 1.4"D • Weight: 1.0 lb.



velleman

Totally Unique

Part No.	Product No.	1	5
645280CM	VPS10	\$189.99	\$184.99

\*Increased performance with x10 probe

## Handheld 12MHz Digital Oscilloscope w/ 3½-Digit DMM

- 40MS/s for repetitive signals (10MS/s for single shot events)
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100Vpeak (AC+DC), 200V peak-peak (AC only)
- Input coupling: DC, AC and GND
- LCD graphics display: 112 x 92 pixels
- Vertical resolution: 8-bit ±1-bit linearity
- Timebase range: 32 steps; 50ns to 1hr./div
- Input sensitivity range: 12 steps; 5mV to 20V/div
- True RMS and dB measurements
- Trigger mode: run, normal, once, and roll modes
- High contrast LCD display
- Recommend 9VDC @ 300mA wall adapter (P/N 133891CM, pg 241)
- Batteries not included (recommend 1.5V, AA, Zinc Chloride battery)
- Size: 8.0"H x 4.1"W x 1.4"D
- Weight: 1.0 lb.



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355207CM (DVM850) can be purchased separately, pg 281

**Includes:** DVM850 DMM & probes

**Multimeter:**

- 6-functions • Data hold function
- 3½-digit w/ backlight, 2000 count
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600V
- DC current ranges: 200μA to 10A
- Resistance ranges: 200Ω to 2MΩ
- Diode, transistor, and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

Free DMM!

Part No.	Description	1	5
373157CM	12MHz Oscilloscope with DMM (HPS40 + DVM850)	\$373.95	\$355.30

## Handheld 20MHz Digital Oscilloscope & Multimeter

- 4-in-1: digital oscilloscope, DMM, frequency counter & logic analyzer
- **Oscilloscope:** 2-channel input, 5mV-2V/div; DC-20MHz(-3dB); 50ns - 0.5us/div; 20 MS/s sampling rate
- **Logic analyzer:** 8 inputs; 1.4V threshold level; 35VDC max. input; 50ns min. pulse width
- **Digital multimeter:** 3½-digit (max. 3999 counts); 40 segment analog bargraph; AC/DC voltage 400mV-600V; AC current 40μA-400mA; DC current 400μA-400mA; resistance 400Ω-40MΩ; continuity & diode testing
- **Frequency counter:** 5Hz-20MHz; 5 digit max.; autoranging; AC/DC/DC input coupling; ±10ppm accuracy; 35Vrms/42V-P/60VDC max. input
- Oscilloscope probes: Use P/N 22891CM or 216047CM, pg 286
- Battery required for portable use (see below)
- Size: 10.0"L x 5.0"W x 2.0"H
- Weight: 9.2 lbs. • One-year warranty



162430CM

**Includes:** Manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case

Part No.	Description	1	5
162430CM	20MHz digital scope	\$799.95	\$764.95
162974CM	Logic probe	59.95	53.95
163141CM	Rechargeable battery	45.95	41.49
162966CM	RS-232 cable & software	26.95	24.25
221946CM	Scope probe	24.95	23.69

## 30MHz 2-Channel Digital Oscilloscope w/ 3½-Digit DMM

- 240MS/s for repetitive signals, 60MS/s for single shot events
- 2 channels
- Input impedance: 1MΩ/20pF
- Maximum input voltage: 100Vpeak (AC+DC), 200Vp-p (AC only)
- Input coupling: DC, AC, and GND
- LCD graphic display: 128 x 192 pixels with LED backlight
- Vertical resolution: 8-bit ±1-bit linearity
- Timebase range: 35 steps; 25ns to 1hr./div
- Input sensitivity: 14 steps; 1mV to 20V/div
- Trigger mode: run, normal, once, and roll modes
- True RMS and dB measurements
- Recommend 9VDC @ 500mA regulated power supply (228890CM, pg 239)
- 6V @ 1800mA NiMH rechargeable battery pack included
- Size: 9.0"H x 5.9"W x 1.7"D
- Weight: 1.9 lbs.



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355207CM (DVM850) can be purchased separately, pg 281

**Includes:** DVM850 DMM & probes

**Multimeter:**

- 6-functions
- 3½-digit w/ backlight, 2000 count
- Data hold function
- DC voltage ranges: 200mV to 100V
- AC voltage ranges: 200/600V
- DC current ranges: 200μA to 10A
- Resistance ranges: 200Ω to 20MΩ
- Diode, transistor, and continuity test
- Power supply: 9V battery (included)
- Size: 2.7"W x 1.2"D x 5.4"H

Free DMM!

Part No.	Description	1	5
373165CM	30MHz Oscilloscope w/ DMM (APS230 + DVM850)	\$738.95	\$702.05

## 20MHz Industrial Scopemeter®

Digital Scope, 15-Function Digital Multimeter & Recorder

The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. It automatically recognizes signal patterns and sets up correct triggering, timing, and amplitude for stable displays.



Part No.	Description	Price
162747CM	Fluke 123-003 w/o software	\$995.00

NEW

## Jameco's Got The Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com)



## 50MHz Digital PC-Based Oscilloscope, Spectrum Analyzer and Transient Recorder

- Sampling frequency: 1.25kHz–50MHz real-time; 1GHz repetitive
- Input impedance: 1MΩ/30pF
- Parallel Port Interface
- Inputs: 2 channels, 1 external trigger input
- Max. input voltage: 100V (AC and DC)
- Power required: 9V to 10V @ 1000mA (recommend P/N 364576CM, pg 241)

### Oscilloscope:

- Timebase: 20ns–100ms per division
- Input sensitivity: 5mV–15V per division with auto step-function
- Recording length: 4096 samples per channel

### Spectrum Analyzer:

- Frequency range: 0 to 25MHz

### Transient Recorder:

- Time scale: 20ms/div–2000s/div
- Max. recording time: 9.4 hours/screen
- Max. number of samples: 100/s

**System requirements:** IBM compatible PC, Windows® 95/98/ME, SVGA card, mouse, printer port, CD-ROM

**Includes:** 2 test leads, PC parallel cable, manual and CD-ROM software

Part No.	Product No.	1	5
200184CM	PCS500AU	\$478.95	\$429.95

## inSTEK 150MHz 2-Channel Digital Oscilloscopes

Color and Monochrome with RS-232/USB/Parallel Interfaces

- Bandwidth (–3dB): 150MHz
- 15 memory settings
- Real-time sample rate: 100MS/s maximum on each channel; equivalent: 25GS/s
- 2 channels with 8-bit vertical resolution
- Record length 125k/CH
- Auto set vertical, horizontal, and trigger level
- Vertical sensitivity: 2mV/div – 5V/div
- Time base range: 1ns/div – 10s/div
- Trigger sensitivity: DC – 25MHz: 0.35div or 3.5mV; 25MHz – 150MHz: 1.5div or 10mV
- Input voltage: 100–240VAC @ 50–60Hz
- Frequency counter: 6 digits ±50ppm; AC coupled, 10Hz – 150MHz
- Size: 12.2"W x 10.0"D x 5.6"H • Weight: 9.3 lbs.
- Two-year warranty

**229358CM:** Monoch. w/ RS-232/USB/parallel interface  
**229366CM:** Color with RS-232/USB/parallel interface

**Includes:** BNC cable, power cord & operations manual

Part No.	Product No.	1	5
229358CM	GDS-820S	\$1,259.95	\$1,196.95
229366CM	GDS-820C	1,439.95	1,367.95

## Free Technical Support

Our knowledgeable Tech Support department is ready to answer your questions. Just call us! 1-800-831-4242

## 20MHz 2-Channel Analog Oscilloscope



EZ DIGITAL

Blue CRT for higher resolution!

- 6" rectangular high-resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: 0.2μs/div to 0.2s/div in 19 calibrated steps, 1-2-5 sequence
- Max. signal input voltage: 250V (DC and peak AC)
- ADD function measures sum of two signals
- Input voltage: 98–125VAC @ 1A, 198–225VAC @ 0.5A, 50–60Hz, 45W
- Two-year manufacturer's warranty
- Size: 16.4"L x 12.6"W x 5.3"H
- Weight: 20.8 lbs.

**Includes:** Two (X1/X10) 40MHz probes, power cord, manual, and block diagram

Part No.	Product No.	1	5
136098CM	OS5020	\$399.95	\$385.95

## 20MHz 2-Channel Analog Oscilloscope with 1MHz Function Generator

- Basic specs same as OS5020 (above)

### Function generator

- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveforms: sine, triangle, square, TTL pulse
- Output impedance: 50Ω
- Output voltage: 14Vp-p
- Size: 12.6"L x 12.6"W x 6.8"H
- Weight: 23.8 lbs.
- Two-year manufacturer's warranty

**Includes:** Two X1/X10 40MHz probes, power cord, manual, BNC to alligator, and cable

Part No.	Product No.	1	10
94650CM	OS5020G	\$529.95	\$499.95

## 100MHz 2-Channel Analog Oscilloscope



EZ DIGITAL

- 2-channel dual trace
- Delay line
- Auto focusing according to intensity
- Weight: 22.8 lbs.
- Size: 16.9"L x 12.6"W x 5.5"H
- Two-year warranty

**Includes:** Two (X1/X10) 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
121179CM	OS5100	\$999.95	\$964.95

## 100MHz Delayed Sweep Analog Oscilloscope w/ Frequency Counter 2 Channel, 4 Trace

- DC to 100MHz bandwidth
- 6" rectangular CRT with internal graticule
- Auto set, readout cursor, delay sweep, hold-off functions
- Z-axis intensity modulation: DC to 2MHz bandwidth; 30VDC + peak AC max. input voltage
- Vertical deflection factor: 2mV/div to 5V/div
- Horizontal time base A/B deflection: 5ns/div to 0.5s/div in 22 calibrated steps
- Input coupling: AC, GND, DC
- Rise time: 3.5ns or less • Weight: 17.6 lbs.

**Includes:** Two X1/X10 100MHz probes, power cord, and operations manual

Part No.	Product No.	1	5
190932CM	OS5100RB	\$1,199.95	\$1,139.95

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## 150MHz Modular Oscilloscope Probe

- Working voltage: 600VDC and 600V peak AC
- Length: 3.9'



Rise Time		Bandwidth (±3dB)		Impedance (R/C)	
Attenuation		Attenuation		Attenuation	
x1	x10	x1	x10	x1	x10
35ns	2.33ns	10MHz	150MHz	1MΩ/46pF	10MΩ/11pF

Part No.	Product No.	1	10	50
645589CM	PROBE150	\$39.95	\$37.95	\$35.95

## Modular Oscilloscope Probes



- 22891CM
- 216047CM
- 236777CM
- Hook and pointed probes
- **216047CM/236777CM:** with IC test ground cover and spring ground contact
- Length: 5'
- Alligator clip ground wire
- BNC male connector
- Maximum input voltage: 600V

Part No.	Bandwidth (±3dB)		Impedance (R/C) *	
	Attenuation	Attenuation	Attenuation	Attenuation
	x1	x10	x1	x10
22891CM	6MHz	60MHz	1MΩ/180pF	10MΩ/22pF
216047CM	6MHz	100MHz	1MΩ/47pF	10MΩ/16pF
236777CM	6MHz	250MHz	1MΩ/47pF	10MΩ/14pF

\* with 20pF oscilloscope input

Part No.	Cross Ref. No.	1	10	50
22891CM	LF101E	\$24.95	\$22.46	\$20.21
216047CM	HF-9100	34.95	29.95	26.95
236777CM	HP-9250	45.95	43.39	37.25

Detailed specifications for Oscilloscopes at [www.Jameco.com/OScopes](http://www.Jameco.com/OScopes)



## Oscilloscope Probes

Designed for use with Tektronix and Hewlett Packard oscilloscopes.

- 3 position switch: x1, ref, x10
- Bandwidth @ 3dB: 10MHz (x1); 150MHz (x10)
- Loading: 57pF, 1M $\Omega$  (x1); 15pF, 10M $\Omega$  (x10)
- Low-resistance gold contacts
- Cord length: 5'

**174473CM:** 7-piece kit  
**212257CM:** 25-piece kit



174473CM



212257CM

Part No.	Product No.		1	10
174473CM	4901-02 (150MHz)	.....	\$49.95	\$44.99
212257CM	4915A (250MHz)	.....	149.95	142.49

## 100MHz Probe Set

- Complete accessory kit included
- Attenuation: x1/x10
- Bandwidth: 15/100MHz (-3dB)
- Rise time: 23.33/3.5ns
- Input resistance: 1/10M $\Omega$
- Capacitance: 64/10.5pF
- Compensation range: 10-60pF
- 48" cable

**SALE**



Part No.	Product No.	Description	1	10
156451CM	4550B	Probe kit .....	\$49.49	\$47.85

## 17MHz Logic Probe

- Max input freq.: 17MHz
- Minimum pulse width: 30ns
- Input impedance: 1M $\Omega$
- Pulse flash time: 500ms
- Audible tones for high and low
- Power supply protection:  $\pm 20V$
- TTL threshold: Lo = 0.8V  $\pm$  0.2V, Hi = 2.3V  $\pm$  0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H



Part No.	Description	1	10	25
149930CM	Logic probe .....	\$29.95	\$26.99	\$24.29

## RF Signal Generator

- Frequency accuracy:  $\pm 3\%$
- RF output: 100mVrms (up to 35MHz)
- Output control: high-low switch, fine adjustment
- Modulation: internal - 1kHz; external - 50Hz to 20kHz at less than 1Vrms
- Audio output: 1kHz min., 1Vrms (fixed)
- Input port for 1MHz to 15MHz crystal in type HC6/u holder (crystal not included)
- Power requirements: 110V
- Size: 5.9"H x 9.8"W x 5.1"D
- Weight: 7.2 lbs.



Part No.	Product No.	Price
684431CM	SG-4160B	\$219.95

## Logic Pulser

- Compatible with TTL, DTL and CMOS ICs
- 1M $\Omega$  sync input impedance
- "One shot" or continuous 5Hz pulse train
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10 $\mu$ s
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H





Part No.	Description	1	10	25
24601CM	Logic pulser .....	\$21.95	\$19.76	\$17.78

## 100MHz Logic Analyzer USB Interface

DigiView™ is a new 18-channel, 100MHz logic analyzer with professional quality and high portability. DigiView™ uses a deep-capture buffer and real time hardware compression to achieve long period captures without reducing resolution.

- 18-channels, 100MHz
- USB interface and power source for portability
- Real time hardware compression
- Compression ratio up to 256,000:1
- Trigger on rising, falling, or transition of any channel
- Pre-trigger and post-trigger data capture
- Captures up to 5 minutes of data @ 10ns resolution



Part No.	Description	1	5
256866CM	USB logic analyzer .....	\$498.95	\$474.09
256874CM	Cable replacement 	29.95	28.49
256882CM	Grabber clip set (10) 	29.95	28.49

## 4-in-1 Universal System

With Function Generator, Universal Counter, DC Power Supply & Digital Multimeter

- **Function generator** capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in seven frequency ranges from 0.2Hz to 2MHz
- **Universal counter** capable of measuring frequency ranges from 5Hz to 1.3GHz
- **DC power supply** capable of generating 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- **Digital multimeter** with ranges of: DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400 $\Omega$  to 40M $\Omega$ ), capacitance (4nF to 400 $\mu$ F) and forward resistance of a semiconductor junction in k $\Omega$
- Size: 14.5"W x 14.0"D x 7.0"H
- Weight: 37 lbs. • One-year warranty



**Less Bench Space – Great Convenience**

Part No.	Product No.	1	5
160864CM	MS9150	\$564.95	\$514.95

## 1.5GHz Frequency Counter

### 2 Channels

- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Gate time: 0.01s, 0.1s, 1s, 10s
- 9-digit green LED display
- Frequency range: 0.1Hz to 150MHz (A input); 50MHz to 1.5GHz (B input)
- Resolution: 0.1Hz to 10Hz (A input); 0.1Hz to 100kHz (B input)
- Frequency, period, totalize, RPM
- Weight: 5.3 lbs.
- Size: 10.3"L x 10.0"W x 3.2"H • One-year warranty



 **EZ DIGITAL**

**Includes:** Fuse, manual and BNC cable

Part No.	Product No.	1	5
55790CM	FC-7150	\$284.95	\$259.95


## 2MHz Sweep Function Generator with Frequency Counter

- Frequency range: 0.02Hz-2MHz in 7 ranges
- Sweep width: 1:1 to 100:1; rate: 20ms to 25s (0.5Hz-50Hz)
- Frequency counter range: 0.2Hz to 50MHz
- Output impedance: 50 $\Omega$   $\pm$  5%
- Maximum input voltage: 150Vrms @ 1kHz
- Input voltage: 115/230VAC @ 50-60Hz (switchable)
- Size: 10.3"L x 10.0"W x 3.2"H
- Weight: 5.8 lbs. • One-year warranty



 **EZ DIGITAL**

**Includes:** Probe and detachable power cord

 **Blue Part No.** = Limited Quantity Available

Part No.	Product No.	1	5
94676CM	FG7002C 	\$295.95	\$285.69

## 2MHz & 10MHz Sweep Function Generators w/ Frequency Counter

### Function Generator

- Wave forms: sine, square, triangle, skewed, ramp, pulse & TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges (192671CM); 1Hz to 10MHz (221911CM)
- Output amplitude: 2 to 20Vpp at open load; 1 to 10Vpp at 50 $\Omega$  load
- Output impedance: 50 $\Omega$   $\pm$  10%
- Offset variable range (max.):  $\pm 10VDC$  at open load
- Frequency sweep time: 20ms to 2s

 **METEX**



221911CM

### Frequency Counter

- Measuring range: channel A: 1Hz to 20MHz; channel B: 20MHz to 2.7GHz
- Input sensitivity: channel A: 20mVRMS sine wave or 100mVp-p; channel B: 40mVRMS for 20MHz to 1.3GHz; 70mVRMS for 1.3GHz to 2.7GHz
- Maximum input voltage: channel A: 35Vp-p; channel B: 3Vp-p
- Input impedance: channel A, 1M $\Omega$ ; channel B, 50 $\Omega$
- Data logging and graphic software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

**Includes:** Coax and power cable, manual, serial cable and software

Part No.	Description	1	5
192671CM	2MHz/2.7GHz .....	\$319.95	\$303.95
221911CM	10MHz/2.7GHz .....	417.95	396.99

## 2MHz & 3MHz Function Generators w/ Frequency Counter

### Function Generator

- Wave forms: sine, triangle, square, TTL, and CMOS output; 229260CM has ramp
- Frequency ranges: 229251CM: 0.2Hz – 2MHz in 7 ranges; 229260CM: 0.3Hz – 3MHz in 7 ranges
- Output amplitude: >10Vp-p into 50Ω load
- Output impedance: 50Ω ±10%
- DC offset range: <-5V to >+5V into 50Ω load
- Voltage controlled frequency function
- Variable DC offset control



229251CM



229260CM

### Frequency Counter

- Input voltage: 115/230VAC @ 50-60Hz
- Weight: 4.4 lbs. • Two-year warranty
- 229251CM: • 4-digit LCD display
- Ranges: 0.2Hz to 2MHz internal only; with resolution of 0.1Hz to 1kHz • Size: 9.1"W x 11.0"D x 3.7"H
- 229260CM: • 6-digit LCD display
- Ranges: INT/EXT switch, 0.3Hz to 3MHz internal and 5Hz to 150MHz external; resolution of 10nHz to 0.1Hz
- Size: 9.9"W x 11.5"D x 3.6"H

**Includes:** Power cord, operations manual and leads

Part No.	Product No.	Description	1	5
229251CM	GFG-8020H	2MHz .....	\$259.95	\$246.95
229260CM	GFG-8216A	3MHz .....	\$279.95	\$251.99

## 2MHz Function Generator

- Frequency range: 0.02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- DC offset voltage from 0 to ±10V; can be superimposed to output waveform
- Variable waveform/duty cycle symmetry
- Output volt.: 20Vp-p (open circuit), 10Vp-p (into 50Ω)
- Input voltage: 110V/220V 50-60Hz
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.
- One-year manufacturer's warranty

**Includes:** Cord, BNC to clip cable, fuse and manual



Part No.	Product No.	1	5	10
60609CM	FG8002 .....	\$189.95	\$179.95	\$169.95

## 3MHz Function Generator with Positive and Negative Pulses

- 6 waveforms: sine, square, triangle, ramp, positive pulse and negative pulse
- Input voltage: 110VAC
- Output impedance: 50Ω ±2%
- Knob selector switches for waveforms and frequency ranges
- Frequency range: 0.5Hz to 3MHz in 6 ranges via rotary switch
- Size: 10.5"W x 11.2"D x 3.9"H
- Weight: 6.6 lbs.



NEW

Part No.	Prod. No.	1	5
685329CM	SK3000 .....	\$209.79	\$199.35

## 3MHz Function Generator

- Square, triangle, and sine waves; TTL and CMOS pulse outputs
- Frequency: 0.3Hz to 3MHz in 7 ranges
- Output impedance: 50Ω ±10%
- CMOS output level: 4Vpp, ±1Vpp to 14.5Vpp; ±0.5Vpp adjustable
- DC offset: <-5V to >+5V into 50Ω load
- Variable controlled frequency input
- Variable DC offset control
- Signal polarity invert button • Duty cycle control
- Size: 9.6"W x 11.5"D x 3.7"H • Weight: 4.4 lbs.



Part No.	Product No.	1	5
222594CM	FG2C .....	\$239.95	\$234.95

## 5MHz Function Generator

- Waveforms: sine, square, triangle and ramp
- 0.5 to 5MHz
- 100% DC offset
- Variable duty cycle
- Output impedance: 50Ω
- Coarse and fine tuning
- Two-year warranty
- Size: 10.4"W x 11.7"D x 3.4"H
- Weight: 6.2 lbs.



BK PRECISION

Part No.	Prod. No.	Description	1	5
160469CM	BK4011A	0.5 to 5MHz ..	\$314.95	\$312.45



## 30-Watt Digital Benchtop Power Supply

- Single output, adjustable from 1.5VDC to 30VDC
- Compact design
- Input voltage: 85-264VAC @ 47-63Hz
- Output terminals
- Large digit backlit display • A fixed current output
- Overload and short-circuit protection
- Size: 5.5"L x 5.2"W x 1.6"H • Weight: 1.2 lbs.



Part No.	Product No.	1	10
301971CM	PSU130Ⓢ .....	\$79.95	\$75.95



## Digital Benchtop Power Supplies

- Single output
- Adjustable voltage output: 645600CM=0-30V; 681221CM=0-18V
- Adjustable current output: 645600CM=0-1A; 681221CM=0-3A
- Max. display resolution: 0.1V/10mA
- Color coded banana plug output jacks
- Input voltage: 120VAC @ 60Hz
- Size: 9.4"H x 4.3"W x 6.1"D
- Weight: 645600CM: 4.4 lbs.; 681221CM: 6.6 lbs.



645600CM

Part No.	Product No.	1	5
645600CM	382200 (30W) .....	\$113.15	\$107.39
681221CM	382202 (54W) Ⓢ .....	123.49	117.35

Detailed specifications for Function Generators

[www.Jameco.com/Prod/FunctionGen](http://www.Jameco.com/Prod/FunctionGen)

## 90-Watt Digital DC Power Supply

### 30V @ 3A

- Input voltage: 110/220VAC @ 50-60Hz
- Resolution: 1% ±1 digit accuracy
- Constant voltage and current operation
- Size: 5.1"W x 10.1"D x 5.9"H



Part No.	Description	1	5
489184CM	DRP-303D .....	\$189.95	\$179.95

## 100-Watt Triple Output Digital and Analog DC Power Supplies

### 30VDC @ 3A

- Triple output with fixed 5VDC @ 0.5A, 12VDC @ 0.5A
- Adjustable 0 – 30V voltage and 0 – 3A current outputs
- Displays of both voltage and current
- Constant voltage or current
- Current limiting indicator
- Overload and short circuit protection
- Binding post terminals for variable supply
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Size: 9.5"L x 6.0"W x 5.6"H • Weight: 10.0 lbs.



197991CM



197982CM

Part No.	Description	1	10
197991CM	Digital DC .....	\$198.95	\$178.95
197982CM	Analog DC .....	\$168.95	\$151.95

## 150-Watt Digital Power Supply

### 30VDC @ 5A

- Adjustable voltage/current outputs • 2A @ 250V fuse
- Constant voltage and current operation • Dual digital display
- LCD displays for both current and voltage
- Coarse/fine adjustment knobs for current and voltage
- Input voltage: 110/220VAC @ 50-60Hz (switchable)
- Color-coded terminals for positive, negative and ground connections • Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs. • One-year warranty



Part No.	Description	1	10	25
153242CM	30VDC @ 5A Ⓢ ....	\$234.95	\$211.49	\$190.35

## 200W Programmable Switching Power Supplies with PC Interface

- Voltage regulation: ≤10mV load; ≤0.05% line
- Current regulation: ≤5mA load; ≤0.05% line
- Output ON/OFF control
- Ripple: ≤20mV<sub>RMS</sub>; ≤10mA<sub>RMS</sub>
- Over-voltage/over-current/over-power/over-temperature protection
- Standard RS-232C 9-pin female interface
- Input voltage: 115/230VAC @ 50-60Hz
- Size: 8.9"W x 12.0"D x 3.9"H
- Weight: 8.8 lbs. • Two-year warranty



INSTEK

**Includes:** Power cord, operations manual & test leads

Part No.	Product No.	Description	1	5
229323CM	PSP-2010	0-20V @ 0-10A ..	\$349.95	\$332.45
229294CM	PSP-603	0-60V @ 0-3.5A ..	\$349.95	\$332.45





## 45W to 600W Benchtop Power Supplies

- Voltage and current adjustable
- Current restricted and short-circuit protection
- Input voltage: 115/230  $\pm$  10% VAC

- Analog display power supplies**
- Accuracy: 2.5%
- Digital display power supplies**
- Voltage accuracy: 1% + 2 digits
  - Current accuracy: 1.5% + 2 digits



Single Output		301920CM	207706CM	207618CM	211692CM		
Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1 10
301920CM	HY1503C	2-Analog	45	15/3	3.8 x 6.3 x 9.1	9	\$99.95 \$94.95
301866CM	HY3003D	2-Digital LCD	90	30/3	5.4 x 6.2 x 11.5	10	\$179.95 \$170.95
207618CM	HY3005C	2-Analog	150	30/5	5.4 x 6.2 x 11.5	14	\$159.95 \$144.95
207626CM	HY3010C	2-Analog	300	30/10	10.4 x 6.5 x 14.4	31	\$299.95 \$224.95
207693CM	HY5002	2-Digital LED	100	50/2	5.4 x 6.2 x 11.5	13	\$189.95 \$142.46
301938CM	HY3005	2-Digital LED	315	0-30/5	10.5 x 6.5 x 14.3	10	\$199.95 \$189.95
301911CM	HY3005D	2-Digital LCD	150	30/5	5.4 x 6.2 x 11.5	13	\$224.95 \$213.70
207706CM	HY5003	2-Digital LED	150	50/3	5.4 x 6.2 x 11.5	13	\$249.95 \$224.95
207600CM	HY5005	2-Digital LED	250	50/5	10.4 x 6.5 x 14.4	17	\$299.95 \$239.95
207634CM	HY3010	2-Digital LED	300	30/10	10.4 x 6.5 x 14.4	31	\$399.95 \$359.95
207685CM	HY3020	2-Digital LED	600	30/20	10.4 x 6.5 x 14.4	42	\$499.95 \$449.95

### Multiple Output

Part No.	Product No.	Displays	Power (W)	Voltage (VDC)/Current (A)	Size (W"xH"xD")	Wt. (lbs.)	1 10
211721CM	HY3002-2	2-Digital LED	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$249.95 \$194.00
211705CM	HY3002D-2	4-Digital LCD	120	0-30/2; 0-30/2	10.4 x 6.5 x 14.4	23	\$269.95 \$202.46
211692CM	HY3003D-2	4-Digital LCD	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$289.95 \$259.95
211730CM	HY3003-2	2-Digital LED	180	0-30/3; 0-30/3	10.4 x 6.5 x 14.4	28	\$299.95 \$230.00
211713CM	HY3003-3	2-Digital LED	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$319.95 \$287.95
211684CM	HY3003D-3	4-Digital LCD	195	0-30/3; 0-30/3; 5/3	10.4 x 6.5 x 14.4	29	\$329.95 \$296.95
301946CM	HY3005D	4-Digital LCD	300	0-30/5; 0-30/5	10.4 x 6.5 x 14.4	26.5	\$349.95 \$332.45
301954CM	HY3005D-3	4-Digital LCD	315	0-30/5; 0-30/5; 5/3	10.4 x 6.5 x 14.4	29	\$369.95 \$351.45
301962CM	HY5003-2	2-Digital LED	300	0-50/3; 0-50/3	10.4 x 6.5 x 14.4	26	\$339.95 \$322.95

## 150-Watt Power Supply

### 50VDC @ 3A

- Adjustable voltage/current outputs
- Constant voltage & current operation
- Input voltage: 110VAC @ 60Hz
- 3A @ 115V fuse
- Color-coded terminals for ground, positive and negative terminals
- Color-coded adjustment knobs for voltage, current and fine adjustment
- One-year warranty

Part No.	Description	Color	Size (L"xW"xH")	Wt. (lbs.)	1 10 25
163723CM	50VDC @ 3A	Dark gray	9.0 x 4.75 x 7.5	12.3	\$143.95 \$136.75 \$129.89



## 150 to 250-Watt Analog Power Supplies

- Color-coded adjustment knob and output terminals for voltage
- Built-in fan
- Voltage and current panel meter
- Constant voltage and current operation

### 175265CM: 15VDC @ 10A, 150-Watt

- Output current: 15A max.
- Input voltage: 110VAC @ 60Hz
- Over-voltage, over-current, short-circuit protection
- Cigarette lighter plug for current output
- LED indicator for power and warning



### 175257CM: 15VDC @ 15A, 225-Watt

- Output current: 25A max. (22A continuous @ 13.8VDC)
- Input voltage: 110VAC/220VAC @ 47-63Hz (switchable)
- LED indicator for power and warning



### 175249CM: 50VDC @ 5A, 250-Watt

- 5A @ 250V fuse
- Input voltage: 110VAC @ 50-60Hz
- Isolated ground



Part No.	Cross Ref. No.	Output Voltage	Size (L" x W" x H")	Wt. (lbs.)	1 10 25
175265CM	DPS150A	2-15VDC	5.7 x 6.2 x 4.0	12.0	\$149.95 \$134.95 \$129.95
175257CM	SPS250A	9-15VDC	5.6 x 6.2 x 4.0	3.8	\$159.95 \$143.95 \$129.56
175249CM	DPS5050	0-50VDC	4.9 x 7.7 x 6.7	13.8	\$189.95 \$179.95 \$171.49

## ZapChecker (RF Field Strength Meter)

Detect and measure all those weak radio signals on HF, VHF, UHF or Microwave frequencies. Ideal for discovering wireless bugs and covert cameras, the ZAPCHECKER also works well to help install wireless security systems and wireless computer networks by checking where the strongest signal is. Measure electromagnetic radiation and emissions from microwave ovens, cell phones, wireless phones, and electronic equipment. ZC-300 (667817CM) includes a log periodic antenna for that extra boost in locating and measuring signals and a BNC connector if you choose to use other antennas.



667796CM

Totally Unique

- Sensitivity control: 20dB, (10 to 1) signal control range
- Sensitivity: (667796CM) 70uV; (667817CM) 45uV
- Detection modes: LINEAR – for far-field detection of weakest signals: 10dB for ZC-185 and 12dB for ZC-300
- Dynamic range: LOG – for near-field localization without overloading: 60dB
- Dynamic range MID – for intermediate detection and localization: 25dB dynamic range
- Analog mode: for detecting and measuring continuously transmitted signals
- Digital mode: for detecting, identifying, and measuring digitally pulsed signals
- Silent vibrator: intensity modulated, switch-enabled vibrator for mid to high level signals
- Analog meter display for visual indication of changes and levels of RF signals
- LED display indicators
- Approximately 80 hours of battery life (2 x AA batteries)
- Size: 2.1"W x 1.3"D x 5.0"H

Part No.	Description	Frequency	1 10
667796CM	ZC-185	3MHz-5GHz	\$158.95 \$150.95
667817CM	ZC-300	1MHz-8GHz	\$398.95 \$370.45

## Mini Thermo-Anemometer

Waterproof, pocket size with air velocity, temperature and windchill, all in one. Ideal for checking blowers, fans, exhaust hoods and balancing AC/HT ducts.

- 0°F to 122°F (-18°C to 50°C)
- Measures wind speed in ft/min., MPH, m/s, km/h, knots and Beaufort force
- Large dual display for air velocity and temperature
- Water resistant housing floats and drop tested to 6'



**Includes:** CR2032 lithium battery and lanyard

Part No.	Product No.	1 5
218085CM	45118	\$88.95 \$84.49

## Commercial Customers

Open an account with us to consolidate your monthly billing and save time. 1-800-831-4242



## Digital Light Meter

- Measures in Lux and footcandle ranges
- Range: Lux - 0 - 50,000 Lux (3 ranges); footcandle - 0 - 5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- 0.5" digit height
- Dimensions (sensor probe): 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs.
- One-year warranty



Part No.	Description	1	10
131764CM	Digital light meter	\$99.95	\$89.95

## Digital Sound Level Meter

- Type 2 meter with manual data store; recalls up to 99 readings
- High accuracy
- AC/DC analog output
- Wide decibel range: 40dB to 130dB
- Max/min recording with elapsed time stamp
- A & C weighing
- Large 2000 count LCD display with analog bargraph
- 0.5" condenser microphone
- Size: 10.3"H x 2.6"W x 1.0"D



Part No.	Product No.	1	5
645642CM	407730	\$75.15	\$71.29

## Non-Contact Infrared Thermometers w/ Laser Pointer

- Built-in laser pointer identifies target area
- Field of view: 6:1 (6" distance measures 1" target)
- Automatic data hold when trigger released and auto power off
- Fixed 0.95 emissivity covers 90% of surface applications

Includes: 9V battery

236451CM:

- Temperature range: -4°F to 500°F (-20°C to 260°C)
- Basic accuracy: ±3% of reading
- Backlighting illuminates display while measuring at night or in areas with low light levels
- Size: 6.7"L x 1.7"W x 1.6"D

211588CM:

- Temperature range: 0°F to 600°F (-20°C to 320°C)
- Basic accuracy: ±2% of reading
- 2000-count backlit LCD display
- Audible and visible over-range indicators
- Size: 8.3"L x 3.5"W x 1.5"D

Part No.	Product No.	1	10
236451CM	42500	\$74.95	\$67.49
211588CM	42529	88.95	84.50

SALE



236451CM



211588CM

## RS-232 Mini-Tester with Status LEDs

Tests any RS-232 (DB25) interface and helps to identify equipment that has failed. Seven bicolor LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25.



Part No.	Description	1	10	100
26729CM	Mini-tester	\$11.95	\$10.76	\$9.68

## Miniature RS-232 Breakout Box for Quick Design Changes

Design new interfaces or modify old ones quickly and easily. Completely self-contained. Connectors: male to female DB25.



Includes: 25 each 22 AWG wire jumpers and machine tool sockets

Part No.	Description	1	10	100
11181CM	Breakout box	\$8.95	\$7.95	\$6.95

## RS-232 Loopback Tester

The tester acts as a data verifier by sending data back to the transmission device. Used for diagnostic testing of RS-232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20, and 15 to 17. Connectors: male to female DB25.



Part No.	Description	1	10	100
22728CM	Loopback tester	\$6.95	\$5.95	\$4.45

## Flexible Multilink RS-232 Tester & Breakout Box

Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20, and 22 on the DTE and DCE sides. Provides signal status at a glance.



Complete cable "breakout" and reconfiguration. Connectors: DB25 male & DB25 female.

- Cable length: 4" • Size: 3.5"L x 3.3"W x 1.0"H

Includes: Handy carrying case, 10 jumper wires and a device wiring chart

Part No.	Description	1	10	25
25945CM	Tester/breakout box	\$22.95	\$19.95	\$17.95

## How to Test Almost Everything Electronic

TAB Publishing Filled with easy-to-follow instructions on how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools, test equipment and troubleshooting techniques.

- Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	1	10
126199CM	How to Test Everything	\$17.95	\$16.15



## Pocket IR Thermometer with Laser Pointer

The pocket IR thermometer measures the surface temperature of objects which are difficult to reach or unsafe to contact. It also measures hot spots in electrical panels and equipment. In-process temperature measurements. With a 6:1 ratio field of view and built-in laser for improved aim, it covers 90% of surface applications for temperature measurement.

- Temperature range: -58°F to 518°F (-50°C to 270°C)
- Built-in laser pointer to improve aim
- °F/°C switchable
- Fixed emissivity (0.95) covers 90% of surface applications
- Visual overrange indicator
- 6:1 field of view
- Data hold and max hold

Includes: 2 AA batteries

Part No.	Description	1	5
219361CM	Pocket IR thermometer	\$59.99	\$56.99



## Temperature/Humidity Meter with Min/Max Memory

- Displays (%) relative humidity and temperature (°C/°F) simultaneously
- Min./Max. memory on both relative humidity and temperature with reset function
- Humidity range: 10% to 99% • 1" high readout

Includes: Built-in tilt stand, AAA battery, and wall mounting bracket

Part No.	Product No.	Temperature Range	Size (L" x W" x Thick")	1	10	25
198045CM	445703	14°F to 140°F (-10°C to 60°C)	4.3 x 3.9 x 0.8	\$36.95	\$35.09	\$33.35



## ATX Power Supply Tester

Test the power outputs of your ATX power supply and prevent accidental damage to your computer system. Simply plug in the ATX connector (20-pin female) to the tester and check for voltage outputs. LEDs are provided on the tester to indicate power good (green light) on the output lines.

- Size: 3.5"W x 2.4"D x 1.5"H

Part No.	Description	Price
673580CM	ATX power supply tester	\$17.99



NEW

## RS-232 Line Status Tester

Identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19, and 20. Connectors: male to female DB25.



Part No.	Description	1	10	100
14285CM	Check line tester 	\$8.95	\$8.09	\$7.25

## RS-232 Signal Adapter/Splitter

- Metal connectors: DB25 female and male, and DB9 male
- Gold-plated contacts



Part No.	Description	1	10	100
105195CM	Tri-port serial adapter 	\$7.95	\$6.95	\$5.95

## PC Cable-Check® Pro

This powerful universal cable tester troubleshoots and maps 20 types of computer cables for opens, shorts, crosses, and good connections. PC Cable-Check Pro tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer, USB-A and USB-B, Mini USB, PS/2, RJ-11, RJ-45, BNC female-female cables and Firewire.

- Easy to read LED indicators for mapping connections
- Auto power off, auto scan, and manual scan



**Paladin Tools®**

Includes: 9V battery

Part No.	Product No.	Price
652480CM	1577	\$164.95



## Network and CATV Cable Tester

Continuity tester for twisted pair cables and F-type CATV coax cables.

- Tests for shorts, opens, miswires, and reversals
- Tests EIA/TIA568A and 568B, 10Base-T
- Shield detection test
- Tests cable lengths from 3 ft. to 600 ft.
- Size: 3.25"H x 2.0"W x 1.25"D



Includes: 2 AAA batteries

Part No.	Product No.	Price
645634CM	CT100	\$28.49

**Low Cost!**



## LANtest Network and Modular Cable Tester

- Tests 10Base-T, 10Base-2 thin ethernet cable, RJ45/RJ11 modular cables, 356A, TIA568A/568B and token ring cable.
- Easy to verify cable continuity, open, short and miswire
- Can test the grounding
- Power switch provided for saving battery power



Part No.	Product No.	1	10	50
615136CM	45-5767-0000	\$115.79	\$104.24	\$93.82

◆ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.



## BNC to Minigrabber® Test Clips

- RG 174/U, .100" O.D.
- Rating: 300 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Strain relief: PVC molded directly to connector
- Length: 36"



Part No.	Product No.	1	10
176954CM	5187-K-36 	\$24.95	\$22.45



## BNC Male w/ Molded Strain Relief to Minigator® Test Clips

- RG 58C/U, .195" O.D.
- Rating: 45 V<sub>RMS</sub> max., +50°C (+122°F) max.
- Jaws open to .187" max.
- Length: 36"





Part No.	Product No.	1	10
176971CM	4532-C-36 	\$18.95	\$16.95



## BNC Cables

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: P/N 159871CM: 36" P/N 159880CM: 60"





Part No.	Product No.	1	10	25
159871CM	2249-C-36 	\$15.95	\$14.39	\$12.95
159880CM	2249-C-60 	16.79	15.95	14.95



## Stackable Banana Test Lead Cables



- 5000V @ 15A • 55°C max.
- 159898CM: Two 36" leads, mini clip w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation
- 571188CM: One black; 5' 571196CM: One red; 5'; red
- 159901CM: Two 24" leads 159919CM: Two 36" leads
- 571241CM: One black; 4'

Part No.	Prod. No.	Description	1	10	25
159898CM	3782-36 	Mini w/ banana	\$9.95	\$9.45	\$8.75
159901CM	B-24-02 	Patch cord	9.95	8.95	7.95
159919CM	B-36-02 	Patch cord	9.95	8.95	7.95

## Butt Set

- Loop limit: 2kΩ max. @ 48VDC
- DC resistance (talk mode): 300Ω typical
- Monitor impedance: 39kΩ nominal @ 1kHz
- Monitor amplifier: 9V transistor provides 25 hours continuous use
- Auto power shut-off
- Power source: shared line and battery power (9V)
- Size: 10.3"L x 2.8"W x 3.5"H



**NEW**

Part No.	Product No.	Price
673707CM	MT-8001	\$188.95






## Solderless Banana Plugs



- 159863CM • Nickel-plated
- 159855CM • Set screws secure leads
- 159927CM • 5000VDC @ 15A • 50°C max.
- Sets include 1 black and 1 red

159863CM/571153CM/571161CM: w/ safety collar  
159855CM/571137CM/571145CM: w/ set screw  
159927CM/571250CM/571268CM: double banana plug w/ wire guide

\* Prepackaged: please order in increments of 10 or 25



Part No.	Prod. No.	Description	1	10	25
159863CM	1825-02 	Set	\$3.29	\$2.99	\$2.69
159855CM	1325-02 	Set	3.29	2.99	2.69
159927CM	MDP-02 	Set	5.95	5.65	4.95



## BNC to Standard Double Banana Plugs





Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC; upper connection: double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439CM	BNC banana plug (F) 	\$4.95	\$4.49	\$3.99
125225CM	BNC banana plug (M) 	5.49	4.95	4.45



## Double Banana Plugs

- Dual gold-plated female banana plugs • Stackable
  - 125217CM
- | Part No. | Description  | 1      | 10     | 100    |
|----------|--|--------|--------|--------|
| 125209CM | Black banana conn.  | \$2.65 | \$2.39 | \$2.15 |
| 125217CM | Red banana conn.    | 2.35   | 2.15   | 1.95   |




## 1" Screw-Type Binding Posts

- For both wire and standard banana
- 0.16" hole for banana test leads
- Chassis mount w/ lock washer and nut • Solder tab hole: 0.06"Dia.
- Size: 1.0"L x 0.5"Dia.



Requires: 0.32" mounting hole

Includes: One red and one black insulated post

Part No.	Description	1	10	100	1000
71239CM	Binding posts (2) 	\$ .99	\$ .85	\$ .69	\$ .59




## 1 3/4" Screw/Solder Binding Posts

- For both wire & standard banana
- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.06"Dia.
- Size: 1.8"L x 0.5"Dia.



Includes: One red and one black


Part No.	Description	1	10	100	1000
77690CM	Binding posts (2) 	\$1.09	\$ .95	\$ .79	\$ .69



## Double-Banana Plug to Alligator Clips Test Cable

- Red & black rubber boot
- 4" lead wire
- Length: 3'



Part No.	Description	1	10	50	100
107422CM	Test cable 	\$3.95	\$3.49	\$2.95	\$2.49



**JAMECO BenchPro**

## Mini Test Clips

- Two lengths

Includes: One black and one red hooked probe clip

Part No.	Description	1	10	100
114809CM	1.75" mini test clips	\$1.89	\$1.49	\$1.35
114817CM	3.5" mini test clips	1.75	1.55	1.39

**JAMECO BenchPro**

## Alligator Clip Leads

- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100
10444CM	Alligator leads	\$4.39	\$3.95	\$3.56

**JAMECO BenchPro**

## BNC to Alligator Clip Test Cable

Permits BNC assembly to be used as a test cable.

- Upper connection: two alligator clips - red 5.5" 22AWG wire; black 9" 22AWG wire
- Lower connection: 23" RG/58U cable with BNC connector

Part No.	Description	1	10	100
11383CM	BNC cable	\$3.49	\$2.49	\$2.25

**JAMECO BenchPro**

## Insulated Alligator Clips

- Color-coded
- Insulated barrel
- Jaw opening .375"-0.5"
- Solder strap and pre-drilled hole for 6-32 self threading screw
- Size: 2.3"L x 0.5"W

Includes: One red and one black clip

Part No.	Description	1	10	100
70990CM	Alligator clips	\$0.39	\$0.36	\$0.33

**JAMECO BenchPro**

## 1 1/16" Banana Plugs

- Set-screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for connection reliability
- Insulating sleeve is threaded to banana plug body
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.

Includes: One red and one black plug

Part No.	Description	1	10	100
72194CM	Banana plugs	\$1.59	\$1.49	\$1.25

**JAMECO BenchPro**

## 2 1/4" Banana Plugs

- Nine rib spring plug
- Will accept up to 0.1" dia. wire
- Each plug equipped with hole for interconnection
- Insulating sleeve fits snugly over copper post
- Size: 2.3"L x 0.3"W • Set-screw connection

Includes: One red and one black connector

Part No.	Description	1	10	100
137525CM	Banana plugs	\$2.95	\$2.12	\$1.84

**JAMECO BenchPro**

## Claw Clips and Alligator Clips

- Sold in increments of 2, 4 or 10

Part No.	Description	Size (L"xW")	2	4	10
248920CM	Mini-alligator clip solder/crimp	1.2 x 0.3	\$0.28	\$0.25	\$0.23
248954CM	Red insulator for 248920CM	—	.15	.13	.11
248946CM	Black insulator for 248920CM	—	.15	.13	.11
256524CM	Alligator clip, barrel/screw	1.9 x 0.2	.45	.38	.35
248938CM	Alligator clip, solder/crimp	1.6 x 0.3	.52	.48	.42
248971CM	Red ins. for 248938CM/256524CM	—	.29	.27	.25
248962CM	Blk. ins. for 248938CM/256524CM	—	.23	.21	.18
248989CM	Claw clip 10A, screw terminal	2.1 x 0.4	.55	.49	.45
249009CM	Claw clip 20A, screw terminal	2.5 x 0.5	.55	.52	.50

Blue Part No. = Limited Quantity Available

**JAMECO BenchPro**

## BNC Female Connector with 20AWG Lead Wires

Solder the 20AWG wires onto your protoboard, plug the BNC female connector into your test equipment and you have an instant testing board for varied applications.

- BNC female connector • 7" 20AWG lead wires

Part No.	Cross Ref. No.	1	10	100
256831CM	CBB-069	\$5.39	\$5.15	\$4.89

**JAMECO BenchPro**

## Micro Test Clip

- One piece per package

Part No.	Description	1	10	100
153162CM	1.6" micro test clip	\$0.95	\$0.87	\$0.69

**JAMECO BenchPro**

## Mini-Clip Test Leads

These spring loaded mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 14"L; clips on both ends
- 26 AWG to 300V CSA/UL approved wire

Part No.	Description	1	10	100
135298CM	Mini test leads	\$11.49	\$10.39	\$9.29

**JAMECO BenchPro**

## Mini-Clip to Banana Test Cables

- Plunger-type action
- Available in black or red
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5" • 20 AWG insulated wire

Part No.	Description	1	10	100
21856CM	Black test cable	\$3.95	\$3.55	\$2.99
21864CM	Red test cable	3.95	3.49	2.99

**JAMECO BenchPro**

## Banana-to-Banana Test Leads

- Stackable
- Color coded; 2 each red, yellow, blue, black, white
- 9.8" long
- 10 per package • 18 AWG wire

Part No.	Description	1	10	25
77841CM	Test leads	\$22.95	\$20.69	\$18.59

**Pomona**

## Banana Jacks & Plugs

- 571170CM: Banana Jack
- Contact size: 16 AWG (0.63")
- Black • Flexible tip
- 571129CM: Do-It-Yourself Banana Plug
- Accepts 18-22 AWG • Black
- Ideal for creating special patch cord length

Blue Part No. = Limited Quantity Available

Part No.	Prod. No.	Description	1	10	25
571170CM	3562-0	Jack	\$3.85	\$3.65	\$3.48
571129CM	122505A	Plug	4.05	3.95	3.87

**Scordell**

## Test Clip

- Hexnut for adjusting tension
- Rapid easy connectors • Threaded stud standard

Part No.	Prod. No.	Description	1	10	100
469087CM	02-0	Threaded std	\$2.35	\$2.28	\$2.21

This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## 0.025" (0.64mm) Square Pin To Straight Banana Plug Adapter

- Excellent for use as a jumper on circuit cards with 0.6mm (0.025") square pins and equipment with 4.2mm (0.166") diameter pin jacks
- Plug body: brass alloy
- Insulation: polypropylene
- Connector: in-line banana plug
- Spring material: beryllium copper alloy
- Wire: 22AWG stranded (26 x 36) PVC insulated, 36" long
- Pin connector: 0.64mm (0.025") square pin receptacle, phosphor bronze gold plated

Part No.	Product No.	Color	1	5	10
684553CM	4771-36-0	Black	\$6.09	\$5.95	\$5.79
684570CM	4771-36-2	Red	6.09	5.95	5.79

**Pomona**

## Micro SMD Oscilloscope Tip Adapter

- Adapter attaches to monolithic type oscilloscope probes
- Interface with pomona's micro SMD grabbers
- Adapter provides electrical connection to probe tip and probe head grounding area
- Dual leads allows oscilloscope probe to attach to 0.025" (0.64mm) diameter posts

Part No.	Product No.	1	5	10
684588CM	6443	\$56.69	\$55.19	\$53.65



## PROBE MASTER® Probe Test Leads

- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"

**174625CM Includes:**  
10 plunger type tips

**212222CM Includes:**  
10 pieces: screw-on alligator clips, spade lugs and spring hooks

Part No.	Description	1	10	25
174625CM	Micro tip test leads 	\$29.85	\$28.35	\$26.95
212222CM	Softie test leads 	23.85	22.65	21.55

## PROBE MASTER® Probe Kit

- Rating: 1000V 10A
- Gold tips and contacts
- Electronic deluxe probe kit includes leads with shrouded right angle banana plug, probes, sprung hook probes, alligator clips, spade lugs, extender probes, minigator leads, .025" wire wrap leads, pico hooks and pincer hooks

Part No.	Description	1	10
212249CM	Elect. deluxe probe kit 	\$65.95	\$62.99

## Pomona® Micro SMD Grabber® Test Clips For 0.05" (1.25mm) to 0.02" (0.5mm) Lead Pitch

- Use with PQFT & SOIC packages with 0.02" lead pitch or greater
- 20mm long tip allows measurement at IC leads that are not easily accessible
- Pincers are stationary, housing moves to close tips together
- Thin body style allows an unlimited numbers of clips to be stacked side by side
- Device under test must be inactive when connecting pincers
- Max. frequency: 100MHz
- Flying lead connection: gold plated copper
- 684481: color - black; 684490: color - red

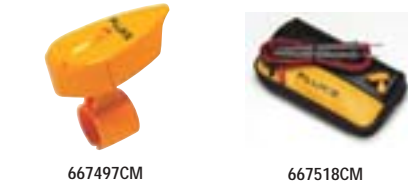
Part No.	Prod. No.	1	5	10
684481CM	6490-0	\$25.35	\$24.95	\$24.59
684490CM	6490-2	25.35	24.95	24.59

## Pomona® Micro SMD Grabber® Test Clip for 0.05" (1.25mm) to 0.01" (0.2mm) Lead Pitch

- Use with PQFT & SOIC packages with 0.2mm lead pitch or greater
- 8mm long tip allows measurement at IC leads that are not easily accessible
- Max. frequency: 100MHz
- Leads: stainless steel wire
- Thin body style allows an unlimited numbers of clips to be stacked side by side
- Tip tubing: Teflon™ coated nickel plate copper
- Flying lead connection: gold plated copper

Part No.	Prod. No.	Lead Pitch	Tip	1	5	10
684502CM	6311 0.55"	0.03"-0.01"	Long	\$86.45	\$85.05	\$82.39
684537CM	6312 0.55"	0.05"-0.01"	Long	87.45	86.05	83.35
684545CM	6313 0.55"	0.05"-0.01"	Short	75.69	74.49	72.15

## FLUKE® Probe Light & Kit




Do not risk shorting out expensive electronics or risk shock in high voltage panels. With this white LED probe light, simply snap on to any test probe or leads and you will have an instant hands-free light at your fingertips.

- 120 hours of battery life
- Uses 2 3-volt watch batteries
- 667518CM: Probe Light kit includes L200 probe light, TL71 premium test lead set, and case

Part No.	Product No.	1	3
667497CM	L200	\$17.95	\$17.05
667518CM	L211	41.95	39.85

## Pomona® Replacement Probe Test Lead Set

- Set of two PVC 48" insulated leads, probe to banana plug
- Fits all DMMs
- Right-angle multimeter connectors

Part No.	Product No.	1	10	25
155951CM	5519A 	\$12.95	\$11.69	\$10.99




## Pomona® Minigrabber® Test Clip Patch Cord Kit

- One each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white
- 24" leads; clips on both ends

Part No.	Prod. No.	Description	1	10
156494CM	5523 	Patch cord (hook)	\$36.45	\$32.99

## Pomona® 11"L Test Lead Holders

- 155985CM: Max cable dia.: 0.450"
- 155977CM: Max cable dia.: 0.320"
- 155969CM: Max cable dia.: 0.210"



Part No.	Prod. No.	Slots	Color	1	10	25
155985CM	2708B 	9	Blue	\$10.25	\$9.75	\$9.45
155977CM	4408 	10	Black	10.45	9.69	8.95
155969CM	1508 	14	Orange	11.95	10.75	9.69

## JAMECO® BenchPro® BNC to Clip Test Cables



BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video & test equipment.

- Micro-clip or mini-clip
- Length: 39"

Part No.	Description	1	10	50	100
11421CM	Micro-clip RG174 	\$3.99	\$3.19	\$2.89	\$2.59
11463CM	Mini-clip RG174 	4.39	3.99	3.59	3.19

## JAMECO® BenchPro® Panel Mount Tip Jacks 1/4" - 32 Thread

Mounts in panels ranging in thickness from 0.063" to 0.375".

- Plating: bright tin
- Material: brass
- Insulation: polycarbonate
- 10 per package

Part No.	Cross Ref. No.	Color	1	10	100
256778CM	R1-17-BLK 	Black	\$8.59	\$8.15	\$7.75
263863CM	R1-17-RED 	Red	8.59	8.15	7.75

## JAMECO® BenchPro® Double Binding Posts - Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W

Part No.	Description	1	10	100
125196CM	Screw mount bind post 	\$3.95	\$3.45	\$3.19

## JAMECO® BenchPro® Single Binding Post to BNC Male

- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 V<sub>RMS</sub>
- Brass nickel plated

Part No.	Description	1	10	100
100600CM	Red binding post 	\$1.59	\$1.34	\$1.06
100618CM	Black binding post	1.59	1.34	1.06

## JAMECO® BenchPro® BNC to Double Binding Posts - Dual Banana

- Red/black design
- 125233CM

Part No.	Description	1	10	100
125233CM	BNC-female 	\$4.95	\$4.49	\$4.05
99354CM	BNC-male 	5.29	4.76	4.28

## JAMECO® BenchPro® Universal Test Lead Kit

Includes: 3' black/red cables, 4.5" black/red insulated test probes, 0.8" needle probes, spade terminals, 2 sets of 4 pieces each red/black insulated alligator clips and banana plug

Part No.	Description	1	10	100
168516CM	Universal kit 	\$8.95	\$7.95	\$6.95


## JAMECO® BenchPro® Protected Banana Style Multimeter Test Probes

- Threaded/pointed test tip
- Black and red
- 18 AWG wire
- 42" long
- 2 per package

Part No.	Description	1	10	25
77737CM	Protected probes 	\$6.49	\$5.85	\$5.25

## JAMECO® BenchPro® Standard Banana Style Multimeter Test Probes

- Black and red
- 18 AWG wire
- 2 per package
- 42" long

Part No.	Description	1	10	25
77745CM	Std. banana probes 	\$7.69	\$6.95	\$6.25

## Professional Electronic Technician Tool Kits for Every Situation!

### 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits
- #1 & #2 pozi bits
- 3/16" & 1/4" slotted bits
- Hex to 1/4" driver adapter
- T-10, T-15, and T-20 Torx bits
- Tweezers
- Driver handle
- Compact carrying case
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H • Weight: 1.5 lbs.



Part No.	Description	1	10	25
170069CM	26-pc. SAE tool set	\$17.95	\$16.16	\$13.69

### 51-Piece Tech Tool Kit

Essential kit for electronic machine maintenance and repair jobs!

- In addition to the tools listed in the matrix right, the kit includes:
  - 2 nut drivers
  - Solder pen
- Case features removable pallets, a combination lock and a cushioned black plastic handle
- Size: 12.5"L x 17.5"W x 3.5"H • Weight: 10.4 lbs.



Part No.	Description	1	5
26681CM	51-piece tool kit	\$94.95	\$75.95

### 55-Piece Tech Tool Kit

An assortment of tools for general & precision work for technicians, engineers, students, etc.

- In addition to the tools listed in the matrix right, the kit includes:
  - Screwdriver handle
  - 6-pc mini-hammer set
  - 5-pc of double edge blade – PLCC extraction tool
- Outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (See pages 280-283)
- Size: 17.6"L x 12.8"W x 4.0"H • Weight: 9.2 lbs.

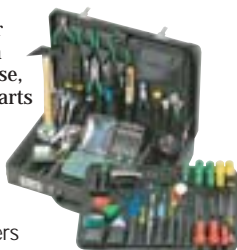


Part No.	Description	1	5
136311CM	55-piece tool kit	\$128.95	\$112.46

### 57-Pc. Master Electronics Tool Kit

Simply every tool needed for field repair or installation. All in a handsome lockable case, with room for spare parts or special equipment.

- In addition to the tools listed in the matrix right, the kit includes:
  - 5" & 6" side cutter
  - 5" & 6" long nose pliers
  - 8" combination pliers
  - 9.5" water pump pliers
  - Alignment driver
  - Parts tube
  - 5-piece file set
  - 6" stainless scissors
  - Testing driver
  - Solder wick
  - PVC insulated tape
  - Oil can
  - Carpenter hammer
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H • Weight: 16.0 lbs.



Part No.	Description	1	5
218245CM	Master electronic tool kit	\$128.95	\$121.65

### 100-Piece Professional Electronics Tool Kit

Kit for field technicians and engineers!

- In addition to the tools listed in the matrix below, the kit includes:
  - Computer/polarity circuit tester
  - Mini vacuum cleaner
  - Cassette head cleaning fluid
  - 3.6V cordless screwdriver kit (bits included)
- Aluminum case features removable pallets, surface-type locks, and black plastic handle
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.



Part No.	Description	1	5
242851CM	100-piece tool kit	\$199.95	\$189.95

### 114-Piece Tech Service Tool Kit

- In addition to the tools listed in the matrix below, the kit includes:
  - 40-pc socket pack
  - 6" side cutter
  - 6" long nose pliers
  - 6" slip joint pliers
  - Carpenter hammer
  - 3 piece trimmer set
  - Stainless steel spring hook
  - Solder wick
  - 8" combination pliers
  - 2 removable pallets
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.



Part No.	Description	1	5
149024CM	114-piece tool kit	\$279.95	\$251.99

Complete your assortment with a multimeter.

See pages 280-283.



### Quick-Reference Table of Professional Tool Kit Contents

Parts included in kits	26681CM	136311CM	218245CM	242851CM	149024CM
3-prong holder		1	1	1	1
Anti-static strap		1		1	1
Brush	1	1	1	1	1
Crimping tool		1 (7-way)	1	1	1
Desoldering pump	1	1	1	1	1
Digital Multimeter	1			1	
Drill set					1
Files, needle	2-pc			6-pc	5-pc
Flashlight		1	1	1	1
Forceps					1
Heat sink		1	1		1
IC extractor		1	1		1
Inspection mirror			1		1
Measuring tape, 10-foot	1		1		1
Pliers, 8" lineman		1		1	
Pliers, bent needle nose	1	1	1	1	1
Pliers, diagonal cutter	1	1		1	1
Pliers, flat nose	1	1		1	1
Pliers, snipe nose					1
Scissors	1		1	1	
Screwdriver set	8-pc	3-pc	8-pc	12-pc	9-pc
Screwdrivers, precision	6-pc	6-pc	6-pc	6-pc	6-pc
Solder core		1	11	1	1
Soldering aid kit, 3-pc	1	1	1	1	1
Soldering iron	1	1 (30W)	1 (30W)	1 (30W)	1 (25W)
Soldering stand	1		1	1	
Tape, electrician				1	1
Tweezers	1	2	1	1	1
Utility components box	1		1	1	1
Utility knife	1	1	1	1	
Wire stripper					1
Wrench, adjustable		1	1	1	1
Wrench, hex key	7-pc	7-pc	7-pc	7-pc	7-pc
Wrench set			6-pc	5-pc	10-pc
Total Pieces	51	55	57	100	114
Price	\$94.95	\$128.95	\$128.95	\$199.95	\$279.95

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## Economy Tool Kits for Every Budget!

### 11 & 12-Piece Lightweight Computer-Service Tool Kits

- Both kits include:
  - 2 nut drivers: 3/16", 1/4"
  - 3-claw parts holder
  - 1-pc hex key wrench
  - IC extractor
  - 4-pc screwdriver set
  - Tweezers



167206CM

#### 167206CM: 11-Piece Tool Kit

- In addition this kit includes:
  - Clear components, tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.



14189CM

#### 14189CM: 12-Piece Tool Kit

- In addition this kit includes:
  - 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
167206CM	11-piece tool kit	\$12.95	\$11.49	\$9.95
14189CM	12-piece tool kit	16.95	15.26	13.73

### 24-Piece PC Premium Tool Kit

- 3.2mm x 75mm slotted screwdriver
- #0 x 75mm Phillips screwdriver
- 3 prong holder
- Spring tweezer
- Spare parts tube
- IC extractor
- Torch
- Extension bar for ratchet bits
- Adjustable ratchet screwdriver
- Side cutter pliers
- 5mm and 7mm slotted bit
- T10, T15, T20, T25, and T30 Torx bit
- 1/4" and 3/16" nut
- Size: 8.4"L x 5.9"W x 1.4"H • Weight: 1.3 lbs.



Part No.	Description	1	5
226085CM	24-piece premium tool kit	\$17.95	\$14.36

### 40-Piece Electronic Tech Tool Kit

- The kit includes:
  - Wire cutters/stripper
  - Adapter bit for sockets
  - Pocket clip screwdriver
  - Potentiometer alignment tools
  - T10-T25 reversible Torx screwdriver bits
  - 3/16"-1/2" S.A.E. nut driver sockets
  - 6mm-12mm metric nut driver sockets
  - Slotted and Phillips screwdriver bits
  - 10-pc screwdriver set
  - Extra long 3-claw parts holder
  - IC inserter w/ pin straightener
  - IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.



Part No.	Description	1	10	25
119183CM	40-piece tool kit	\$21.95	\$19.76	\$15.80

### Aluminum Tool Case

This heavy-duty case is made of lightweight durable aluminum. A single inside panel and adjustable compartments easily carry hand tools, small soldering equipment, hand-held test equipment, and more.

- Size: 19"L x 14"W x 6"D



Part No.	Description	1	5
261884CM	Tool case	\$49.95	\$44.95

### Heavy-Duty Tool/Equipment Case

Made of lightweight aluminum, this tool case is designed to take rough field use. Case includes tool pallet, egg carton foam lid, and 2.5" thick pre-cut foam bottom. Ideal for carrying fragile instruments, test equipment, and small hand tools.

- Size: 19"L x 14"W x 6"D



Part No.	Description	1	5
261876CM	Tool/equipment case	\$51.39	\$44.15

### Weller® 250-Watt, 3-Setting Industrial Heat Gun

- 750°F to 800°F hot air at nozzle; 3-position switch; hot-off-cool
- Designed for assembly and repair applications such as shrink tubing and vinyl, epoxy curing/drying/cooling
- 120VAC @ 60Hz • ESD safe
- Long-life heater and fan components
- 3-wire grounded plug; 6' cord



Part No.	Product No.	Wt. (lbs.)	1	10
191943CM	6966C	1.2	\$119.95	\$107.95

### 1000-Watt Heat Gun

- Dual heat setting: 600°F/1100°F
- Works with spot dry paints, plaster, spackle, and cure adhesives
- Use with heat-shrink material
- Thaw pipes, frozen locks, and loosen rusted bolts
- Input voltage: 110-120 VAC



Part No.	Description	1	6	12
254924CM	Heat gun	\$45.95	\$44.39	\$39.79

### 2-In-1 Zippered Tool Bag

A high-quality tool tote case that can be used as two separate bags or zipped together as one case. The first bag has two large pouches for documents and paperwork or large items. The second bag contains 20 pockets for tools.

- Size: 16"L x 12"W x 2.5"D



Part No.	Description	1	5
261868CM	Tool/tote case	\$24.25	\$22.09

### Double Layer Nylon Tool Bag

This nylon tool bag provides enough space to carry your tools anywhere. Zippered bottom panel for long flat tools, 8 external pockets and 4 internal pockets for everyday use tools.

- Material: double layer rugged nylon
- Color: light brown and green
- Size: 15.5" (38.1 x 19 x 30.5cm)



Part No.	Product No.	1	5
645511CM	VTBAG2	\$39.95	\$37.45

### Heat Gun/Stripper

#### Dual-Setting

- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Thaw frozen pipes and locks, and loosen rusted bolts
- UL listed
- Size: 9.3"L x 7.0"W
- Weight: 1.8 lbs.



76865CM



217816CM



217832CM

Part No.	Description	1	10	25
76865CM	Heat gun	\$39.95	\$35.95	\$31.95
217816CM	Heat shrink attachment	1.95	1.85	1.75
217832CM	Air spreader	1.95	1.66	1.24

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## Adjustable Cordless Screwdriver

- Adjustable handle can be used folded or unfolded
- Thumb switch for reverse and forward action
- No load speed: 180 RPM
- 3.6V rechargeable battery
- Clutch operating torque from 4 to 21kg-cm
- Size: 10.5"L x 1.5" Dia. • Weight: 1.6 lbs.

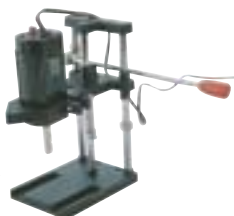
**Includes:** 6VDC @ 300mA power supply and screwdriver bits, slotted and Phillips



Part No.	Description	1	10
176680CM	Cordless screwdriver ..... \$36.95		\$33.26

## Mini-Drill and Stand

This Mini Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	10	25
26702CM	MS398 drill	0.8	\$29.95	\$26.95	\$23.95
26711CM	MS399 stand	1.8	21.95	19.75	17.55

## 32-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

**Includes:** Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver



Part No.	Description	1	10
223829CM	32-piece security bit set ..... \$11.95		\$10.75

## 9-Piece Assorted Drill Bit Kit

- Variety of sizes: .014" to .126"
- Shank diameter: .125"
- Each kit will vary in contents of bit sizes



Part No.	Description	1	10	50
131676CM	9-piece drill bit kit ..... \$9.95		\$8.95	\$7.95

## High-Speed Steel Step Drill Bits

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick.



Part No.	Description	1	10	25
229657CM	3/16" - 7/8" 13-step ..... \$14.95		\$13.45	\$12.40
172401CM	3/16" - 1/2" 6-step ..... 9.95		8.95	7.95

## Loctite Hot Melt Glue Gun & Glue Sticks

The Loctite® Hysol® 050-LITE is a lightweight handheld hot melt applicator which utilizes a finger actuated trigger mechanism to positively grip and advance all Loctite Hysol 1/2" diameter hot melt sticks.



- Fixed precision temperature setting: 392°F (200°C)
- Adhesive: 1/2" diameter glue sticks
- Melt rate output: up to 1lb. / hour
- Voltage: 100/240VAC@50-60Hz (self adjusting)
- Power: 20 to 500 watts (self regulating)
- Size: 8.0"L x 1.3"W x 6.6"H • Weight: 0.8 lbs.

Part No.	Product No.	Description	Price
667577CM	98029	Hot Melt glue gun ..... \$37.39	

Part No.	Product No.	Description	1	5
667585CM	83383	White glue stick ..... \$14.09	\$13.39	
667606CM	83273	Tan glue stick ..... 8.79		8.35

## Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long gluesticks (2 sticks included) • Size: 7.3"L x 6.3"W



Part No.	Description	1	10	25
72696CM	Glue gun ..... \$9.95		\$8.96	\$8.06
78633CM	Glue sticks (6/pk) ..... 3.15		2.84	2.55
176292CM	Glue sticks (10/pk) ..... 4.95		4.29	3.79

## PC Board Drill Bits

- Reconditioned carbon steel bits
- High quality long lasting cutting edge • Shank dia.: .125"
- Use for drilling holes in glass PC boards



Part No.	Drill Dia.	No.	Application	1	10	100
16619CM	.021"	75	Misc. ....	\$1.55	\$1.40	\$1.26
16580CM	.040"	59	Plated thru holes ..	1.75	1.58	1.42

## Twin Wrench Driver Set

The handle of this twin wrench driver set has two tips, horizontal and vertical for those hard-to-reach areas.



- Non-slip double ended driver
- Three slotted bits: 4mm, 5mm, and 6mm
- Phillips bits: #1 and #2 • Pozi bits: #1 and #2
- Torx bits: 10mm, 15mm, and 20mm

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
223811CM	Twin wrench driver set ..... \$2.59		\$2.34

## 3-Piece Drill Bit Set

### Drill Bit Set

For drilling component lead wire holes in phenolic or glass epoxy PC boards.

Made of high speed tool steel for long life. Set contains No. 66 bit - 0.033" dia., No. 60 bit - 0.044" dia., 1/16 bit - 0.0625" dia.



Part No.	Description	1	10	50
616569CM	3-piece drill bit kit ..... \$4.55		\$4.32	\$4.10

## Jameco Pocket Screwdriver

### Phillips & Flat head

- Size: 6"L
- Pen clip for pocket storage



Part No.	Description	1	10	100
127271CM	Pocket screwdriver ..... \$1.55		\$1.45	\$1.19

## 11-Pc Precision Screwdriver Set

- 0.9, 1.2, 1.4, 1.8, 2.4 and 3mm slotted screwdrivers
- Phillips #00, #0 and #1 screwdrivers
- Awl • Magnetic pick-up



Part No.	Description	1	5
226093CM	Precision screwdriver ..... \$4.49		\$4.29

## 7-Piece Insulated Screwdriver Set

- Tapered handle for sure grip
- Precision ground shank
- Hardened, magnetic tips



**Includes:** 0.4/0.8/1.0/1.2mm slotted; #0/1/2 Phillips

Part No.	Description	1	5
261999CM	Screwdriver set ..... \$17.95		\$16.15

## 6-Pc Precision Torx Screwdriver Set

- T5 and T6 x 50mm Torx screwdrivers
- T7, T8, T9, T19 x 50mm Torx hex screwdrivers



Part No.	Description	1	5
226106CM	Precision TORX screwdriver ..... \$12.95		\$12.29

## 6-Pc Precision Screwdriver Sets

**34041CM includes:** 3/64", 1/16", 5/64", 5/32", 1/8" & 9/64" slotted screwdrivers

**34059CM includes:** 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers



Part No.	Description	1	10	50
34041CM	Slotted set ..... \$3.59		\$3.23	\$2.91
34059CM	Phillips set ..... 3.59		3.23	2.91

## 7-Piece Nut Driver Sets

- Premium hardened steel sockets
- Large colored handles

**261850CM: Metric** 5mm, 6mm, 8mm, 9mm, 10mm, 11mm & 13mm

**261841CM: SAE** 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", 1/2"



Part No.	Description	1	5
261850CM	Metric nut driver set ..... \$8.99		\$8.65
261841CM	SAE nut driver set ..... 9.89		9.49

## 6-Pc Long-Neck Screwdriver Set

- Three slotted: 0.09"Dia. x 6.6"L 0.12"Dia. x 6.6"L 0.16"Dia. x 9.6"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L



Part No.	Description	1	10	50
99451CM	6-pc. screwdriver set ..... \$8.95		\$8.06	\$7.25

## 6-Piece Screwdriver & Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- 2 long-neck slotted: 0.12"Dia. x 9.61"L;
- 0.09"Dia. x 7.64"L • 2 long-neck Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L



**Quantity SAVE**

Part No.	Description	1	10	50
99565CM	Screwdriver/pliers 	\$13.49	\$11.47	\$8.60

## 5-Piece Pliers Set

- Precision machined heat-treated jaws
- Vinyl insulated handles

**Includes:** 6.5" needle nose; 7.5" lineman's; 8" slip joint; 8" groove joint & cutting pliers

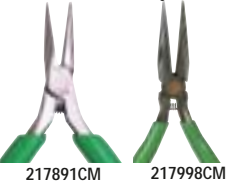


Part No.	Description	1	5
261905CM	Pliers set 	\$9.75	\$9.25

## Xcelite® Needle Nose Pliers



**217891CM (submini needle nose):** Serrated jaws

- Positive gripping of fine wire or subminiature components
- Fine point allows use in confined areas



**217998CM:** Smooth jaws

- General purpose for pick-up and wire forming


Part No.	Prod. No.	Description	1	10
217891CM	L4 	4" mini needle nose ....	\$14.95	\$13.69
217998CM	LN54G 	5" thin long nose .....	14.95	13.46

## Precision 5-Piece Stainless Steel Pliers Set



- Spring return
- Insulated handles

**Includes:** One 3.5"L micro cutting nippers and one each 4"L micro round nose pliers, long nose pliers, flat nose pliers and bent nose pliers

Part No.	Description	Wt. (lbs.)	1	10	25
73120CM	5-piece set 	0.6 .....	\$17.95	\$16.16	\$14.54

## Half-Round Long Nose Pliers

- Drop forged steel
- Spring return action
- Length: 4.5"
- Heat treated
- Vinyl grips
- Knurled jaws



Part No.	Description	1	10	50	100
177607CM	Half-round pliers 	\$4.95	\$4.49	\$3.95	\$3.59

## 5" Cutting Pliers

Recommended for cutting copper and soft lead wires. Ideal for precise circuit board work. Spring loaded.



Part No.	Description	1	5
261809CM	Cutting pliers 	\$4.99	\$4.55

## 5.3" Flat and Half-Round Long Nose Pliers




- Stainless steel
- Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose

35473CM

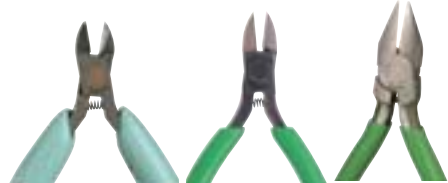


**35473CM/35490CM:** Knurl jaws

**195531CM:** Smooth jaws

Part No.	Description	1	10	50	100
35473CM	Flat long nose 	\$5.49	\$4.94	\$3.95	\$2.96
195531CM	Flat long nose 	5.19	4.64	3.65	2.66
35490CM	Half round 	5.49	4.94	3.95	2.96

## Xcelite® Diagonal Cutters



217921CM

217904CM





217955CM

Manufactured from the finest forged alloy steel with polished head and cushion comfort handles.

- Flush cutting edge
- Cutting edges machine ground and electronically hardened for extended life
- Forged alloy steel w/ polished head
- Handle coil springs for fast cutting action
- ESD safe cushion grips for maximum comfort



217867CM

Part No.	Prod. No.	Description	1	10
217921CM	MS54J 	4" oval head-flush .....	\$15.95	\$14.36
217955CM	S475JS 	4" relieved head-flush ...	14.95	13.46
217904CM	MS549J 	4" tapered head-flush ...	14.95	13.46
217867CM	MS545J 	4" slim line tapered head-flush	14.95	13.46

## Cutting Pliers

### Flush Cut

- Stainless steel
- Side cutting flush cut
- Leaf spring for smooth controlled action



Part No.	Description	1	5
261788CM	Cutting pliers 	\$6.95	\$6.55

## Heavy Duty Tubing Cutter

- Clever design eliminates spiraling, resulting in straight clean cuts with no burrs
- Cuts copper, brass, aluminum tubing and thin-wall conduit up to 1-1/8" diameter
- Fold-away reamer
- Extra cutter wheel stored in body
- Lightweight aluminum body and knob
- Telescopic wheel-feeding mechanism keeps turning radius constant • Length: 4.8"
- Folding deburring blade on backside



**SALE**

Part No.	Description	1	5
227475CM	Tubing cutter .....	\$12.15	\$11.19

Visit us online at [www.Jameco.com](http://www.Jameco.com)

## Xcelite® Cutters and Pliers



146712CM (6")

146739CM (4")




146721CM (5")

- Spring returns

**146712CM:** Micro series wire cutter – flush; 6"

**146739CM:** Diag. wire cutter – semi-flush; 4"

**146721CM:** Long needle nose pliers – flat; 5"

Part No.	Product No.	1	10	50	100
146712CM	170M 	\$5.75	\$5.19	\$4.69	\$4.34
146739CM	MS54V 	13.95	12.95	11.95	11.15
146721CM	MN776V 	16.95	15.95	14.95	13.95

## Xcelite® Shearcutter/Pliers Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L



Part No.	Product No.	1	10	25
152055CM	S2K 	\$15.95	\$14.95	\$13.95

## 4" Diagonal Wire Cutter

- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"




Part No.	Description	1	10	50	100
179901CM	Wire cutter 	\$5.49	\$4.94	\$4.45	\$4.00

## 4.3" Diagonal Wire Cutter

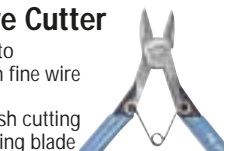
- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade




Part No.	Description	1	10	50	100
35481CM	Wire cutter 	\$5.59	\$4.99	\$4.55	\$3.99

## 5" Diagonal Wire Cutter

- Cuts component wire up to 1.2mm thick and 0.08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W w/ 0.5" cutting blade



Part No.	Cross Ref. No.	1	10	25
161411CM	Wire cutter 	\$7.49	\$6.74	\$6.07

## molex® Hand Tools for Mini-Fit™ Jr.



304928CM

304936CM

**304928CM:** Accepts wire range from 14-24 AWG

Part No.	Product No.	Description	1	5
304928CM	63811-1000 	Crimp tool .....	\$42.99	\$39.99
304936CM	11-03-0044 	Extraction tool	19.99	18.99



## 5" Wire Cutter/Stripper

- Strips and cuts 20-24 AWG wires
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 5.0"L x 3.0"W



Part No.	Product No.	1	10	50	100
159273CM	HT1091	\$5.49	\$4.94	\$4.45	\$4.00

## 5" Wire Cutter/Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Size: 5.0"L x 3.0"W
- One-year warranty

**78991CM:** 10-30 AWG (screw adjustable)

**215888CM:** 10-24 AWG (dial to adjust for wire gauge)



Part No.	Cross Ref. No.	1	10	50	100
78991CM	HT108	\$3.95	\$3.49	\$2.95	\$2.59
215888CM	JE-2022C	3.95	3.49	2.95	2.59



## 6" Wire Cutter/Strippers

- Plier nose
- Wire size markings, in AWG and mm
- Size: 6.0"L x 2.0"W

**161226CM:** Premium

- 12-20 AWG stranded;
- 10-18 AWG solid
- Color: yellow

**161234CM:** Premium

- 16-26 AWG stranded;
- 14-24 AWG solid
- Color: red

**161218CM:** Standard

- 16-26 AWG stranded; 14-24 AWG solid
- Color: red



Part No.	Prod. No.	Description	1	10
161226CM	ID45-215	Cushioned grips	\$16.75	\$15.91
161234CM	ID45-216	Cushioned grips	17.79	16.91
161218CM	ID45-121	Non-cushioned grips	13.59	12.95

## 6.6" Wire Stripper

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W



Part No.	Product No.	1	10	50
159290CM	HT5023	\$9.95	\$8.96	\$8.06

## 7-in-1 Wire-Handling Tool

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Solderless crimping tool
- Scale: mm and inch
- Size: 6.6"L x 3.0"W



Part No.	Prod. No.	Description	1	10	50
18796CM	HT1041	10-18AWG	\$4.95	\$4.49	\$3.95
127861CM	HT1042	16-26AWG	5.95	5.36	4.82
127870CM	HT1043	22-30AWG	5.49	4.94	4.45

## Automatic Wire Strippers

- 175097CM:** Spring load grip
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

**Includes:** Wire stopper for desired strip length

**202841CM:**

- Size: 6.5"L x 3.0"W
- Weight: 0.3 lbs.



Part No.	Description	1	10	25
175097CM	Strips 8-22 AWG	\$16.95	\$15.26	\$13.73
202841CM	Strips 3-24 AWG	12.45	10.58	7.94

## Rotary Coax Cable Strippers

**2 and 3 Blade**

**159118CM (3 Blade):**

- 2 settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black

**159185CM (2 Blade):**

- 4 settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W
- Color: gray

**Includes:** Hex key wrench for adjusting blade

Part No.	Product No.	1	10	25
159118CM	HT312B (3 blade)	\$14.65	\$13.19	\$11.55
159185CM	HT332D (2 blade)	13.95	12.56	11.30



## Crimp/Cut/Strip Tool

**For RJ11 (6P) and RJ45 (8P) Modular Plugs**

- Repeatable crimp action for consistent high-quality connections
- Push-down locking mechanism
- Size: 8.0"L x 2.0"W
- Weight: 0.8 lbs.

**Includes:** Cut and strip blade

Part No.	Cross Ref. No.	1	10
174684CM	TTK071	\$26.95	\$24.26



## Telemaster Modular Connector Crimp/Cut/Strip Tool

**For RJ11 (6P) and RJ45 (8P) Modular Plugs**

- Repeatable crimp action for consistent high-quality connections
- Size: 6.0"L x 2.0"W
- Weight 0.8 lbs.

**Includes:** Cut and strip blade

Part No.	Product No.	1	10
161091CM	ID30-496	\$39.95	\$36.65



## Ratchet Crimp Tool

**For RJ11 (6P) and RJ45 (8P) Modular Plugs**

- Repeatable crimp action for consistent high-quality connections
- Size: 8.5"L x 2.2"W
- Weight: 1.2 lbs.

**Includes:** Cut and strip blade

Part No.	Cross Ref. No.	1	10
174676CM	TTK070	\$39.95	\$35.99



## Professional Modular Connector Crimping Tool

- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, RJ45: 8P8C, RJ11 and RJ12: 6P6C, and 4P4C
- Insulated handles
- Size: 8.2"L
- Weight: 1.2 lbs.



Part No.	Product No.	1	10	25
181147CM	HT200	\$54.95	\$49.49	\$44.55

## Modular Connector Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps RJ11 and RJ45 plugs
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.

**Includes:** 90 modular plugs, 40 pcs. 4P4C, 30 pcs. 6P6C, 20 pcs. 8P8C

Part No.	Product No.	1	10	25
73496CM	HT200B	\$74.95	\$67.49	\$60.75



## Metal Modular Connector Crimping Tool

- Cable stripper and wire cutter
- Size: 8.0"L
- Weight: 1.8 lbs.
- Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)

Part No.	Description	1	10	25
114526CM	RJ11/RJ45	\$24.95	\$22.49	\$20.25



## Ratcheted Modular Connector Crimping Tool

- Insulated grip
- Ratcheted type
- Metal
- Size: 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.

Part No.	Description	1	10	25
159311CM	RJ45/11/12	\$21.95	\$19.95	\$17.95



## Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- Hex sizes: 0.043", 0.068", 0.100", 0.137", 0.213", 0.255"
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
114534CM	HT-336G	\$23.95	\$21.59	\$19.45



Committed  
to You

We're committed to providing you  
with the best service in the industry.






## Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Coiled spring return • Size: 7.3"L x 1.5"W



Part No.	Product No.	1	10	25	100
99442CM	HT202A 	\$9.49	\$8.55	\$7.69	\$6.95



## D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use w/ P/Ns 43377CM, 43369CM, pg 120 & 100765CM, pg 144
- Size: 7.0"L x 4.0"W





Part No.	Product No.	1	10	25
159265CM	HT213 	\$11.29	\$10.15	\$8.99



## Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum .375" hole required • Size: 7.8"L





Part No.	Prod. No.	Description	1	10	25
18809CM	HT204	Nibbling tool 	\$7.95	\$7.16	\$6.44
29330CM	HT204B	Replcmnt bit 	4.49	4.04	3.64

## POP - Rivet Tool

Sets 3/32", 1/8", 5/32" & 3/16" rivets without adjustments.

Simply change the appropriate nozzle, slip the rivet into the pre-drilled hole, and you have a perfect fasten. Spring-loaded handle for automatic ejection of the mandrel.




Part No.	Description	<b>SALE</b>	1	5
226114CM	Rivet tool .....	<b>SALE</b>	\$5.05	\$4.59
226288CM	1/8" x 1/4" long rivet (100 pk) 		2.19	1.99
226296CM	3/16" x 1/4" long rivet (100 pk) 		3.49	2.65

## 9-in-1 Pocket Multi-Tool

- Bottle opener • Metal file
- Flashlight • Knife blade
- Nail pick • Wire cutter
- 2 handyman/long-nose pliers
- Phillips screwdriver • Folded: 2.75"L

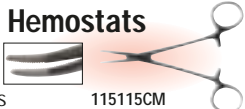
 Blue Part No. = Limited Quantity Available



Part No.	Description	1	5
227264CM	9-in-1 pocket multi-tool 	\$2.59	\$2.35

## 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions




Part No.	Cross Ref. No.	Description	1	10	50
115107CM	HEM01	Straight ..	\$3.49	\$3.14	\$2.83
115115CM	HEM02	Curved .....	3.95	3.56	3.20

## Connector Compression

Designed to compress ferrules of "F" /BNC/ RCA connectors. Black oxide steel frame with interchangeable die sockets, ratchet mechanism with manual release disengages after a complete cycle securing a fully compressed ferrule. Integrated coax cutter for cutting cables to appropriate lengths.



Part No.	Description	1	5
261761CM	Compression multi-tool 	\$34.95	\$31.45

## "F" Connector Compression Tool

Compresses RG-6 and RG-59 Snap-N-Seal type connectors. • Length: 5"



Part No.	Description	1	5
261753CM	Compression tool 	\$29.95	\$28.45

## 25-Piece Hex Key Set

- 12-piece SAE long arm with sizes from 1/16" to 3/8"
- 13-piece Metric short arm with sizes from 1.5mm to 1cm



Part No.	Description	1	5
261825CM	Hex key set 	\$6.95	\$6.59

## Automatic Center-Punch Tool

*Adjustable*

- Precision instrument
- Alloy steel point
- Knurled steel body • Size: 5.0"L x 0.5"Dia.




Part No.	Description	1	10	50
160282CM	Center punch tool 	\$5.95	\$5.39	\$4.85

## T-Handle Reamer Tool

*Excellent for aluminum chassis work*

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long



Part No.	Description	1	10	25
151749CM	T-handle reamer tool 	\$7.95	\$7.49	\$6.95

## Deluxe Precision Knife Set

- Three different knife handles – fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H
- Includes:** 13 types of blades



Part No.	Description	1	10	25
72768CM	13 blade knife set 	\$10.95	\$9.86	\$8.87

Do you need a staple gun or staples?  
Find them online at  
**[www.Jameco.com](http://www.Jameco.com)**



## 4-Piece Adjustable Wrench Set

Heavy-duty carbon steel wrenches with black industrial finish. Constructed with rugged I-beam handle and four-sided jaw design for better fit and strength.

- Length x jaw opening: 12" x 1 3/16"; 10" x 1 1/16"; 8" x 1"; 6" x 1 1/16"



Part No.	Description	1	5
261711CM	Adjustable wrench set .....	\$11.05	\$9.90

## Adjustable Wrench

Made of chrome-plated carbon steel with knurled adjustment screw and angled head. Size: 6"L x 13/16".



Part No.	Description	1	5
261649CM	Adjustable wrench 	\$4.15	\$3.69

## Combination Wrenches

Made from hardened, tempered, drop forged chrome vanadium steel. These wrenches have a straight open end and a 120° offset bi-hexagonal ring.



Part No.	Description	<b>SALE</b>	1	5
261702CM	9/16" wrench .....	<del>\$4.99</del>	\$2.25	\$2.00
261690CM	1/2" wrench .....	<del>\$4.99</del>	2.25	2.00
261681CM	7/16" wrench .....	<del>\$3.99</del>	2.25	2.00

## Magnetizer/Demagnetizer

Magnetize tips of screwdrivers for easy pick-up of small metal objects; demagnetize tips to prevent electrostatic discharge that will damage electronic components.

- Size: 2.0"L x 2.0"W x 1.2"D



Part No.	Description	1	5
239530CM	Magnetizer/demagnetizer 	\$6.29	\$5.66

## The Right Tool for the Job

OK, so why cut corners when you're punching down cables, stripping insulation or crimping wires? Little nicks in the insulation can creep and become big reliability problems later on. Not good for referral and repeat business.

When you think about the cost to get a customer in the first place, you realize you can't afford to lose any of them, particularly to risks that can be substantially reduced at a relatively low cost. Plus, in the business world, you rarely use a tool for just one job, so the amortized cost is really low.

**Practical Practices**  
Money Saving Tips for the Engineer



## 2-Piece Tweezer Set

- PVC insulated handles
- Serrated tips for parts handling
- Bent tip and straight rounded tip (wide tip)
- Length: 5.8"



Part No.	Description	1	10	25
253180CM	Tweezer set	\$2.59	\$2.33	\$2.09

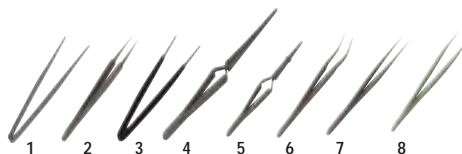
## 4-Piece Steel Tweezer Set



- 4 styles of stainless steel tweezers, one self-locking
- Ideal for picking up small components in hard-to-reach places

Part No.	Description	1	10	50
10735CM	4-piece tweezer set	\$7.95	\$6.95	\$5.95

## Tweezers



- 253163CM: Straight, round tapered, wide-point tip
- 252929CM: Straight round tapered, fine-point tip, stainless steel
- 252945CM: Self-closing reverse-action tweezers; wide point tip; stainless steel
- 252937CM: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253091CM: Curved fine-point tip
- 252911CM: Straight fine-point tip
- 253112CM: Fine-point tip, insulated, anti-static

Part No.	Length	Photo	1	10	25
253163CM	4.5"	1	\$0.89	\$0.79	\$0.73
252929CM	4.75"	2	\$2.25	\$1.99	\$1.79
252945CM	6.6"	4	\$1.99	\$1.79	\$1.65
252937CM	4.3"	5	\$2.25	\$1.99	\$1.79
253091CM	4.6"	6	\$2.25	\$1.99	\$1.79
252911CM	4.75"	7	\$2.25	\$1.99	\$1.79
253112CM	4.75"	8	\$2.25	\$1.99	\$1.79

## 12-Piece File Tool Kit

- Fine and coarse file assortment for metal and wood
- 3-piece metal flat; 2-piece metal triangle; 1 each wood round; metal round; wood half-round; metal half-round; metal/wood half-round; and 2 detachable handles



Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
233314CM	12-piece file kit	\$8.55	\$7.75



## We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs.

Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

## 8-Piece Steel File Set

- Strong tool steel
- 1 ea. 0.15"Dia., 0.13"Dia., 0.12"Dia., 0.11"Dia. and four 0.22"Dia. (5.65"L)

Blue Part No. = Limited Quantity Available

Part No.	Cross Ref. No.	Description	1	10
100360CM	FS108F	8-piece file set	\$7.29	\$6.62

## Strip-Wrap-Unwrap Tool

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 0 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long



Part No.	Cross Ref. No.	1	10	25
34585CM	HSM30 (Modified)	\$49.99	\$44.99	\$39.99
236785CM	HSR30 (Regular)	\$30.55	\$27.49	\$24.45

## 30 AWG Wire Wrap/Strip Tools

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation while all loops on a regular tool have bare wires.

- Knurled handle for easy grip • 5" long



Part No.	Description	1	10	25
242801CM	Tool (Regular)	\$19.95	\$18.49	\$15.95
242798CM	Tool (Modified)	\$21.95	\$19.95	\$17.15
242827CM	Replace tip for 242801CM	\$6.49	\$5.85	\$5.29
242819CM	Replace tip for 242798CM	\$7.49	\$6.75	\$5.89
242835CM	Replace stripper assembly	\$5.49	\$4.67	\$3.50

## IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Materials: black plastic • Size: 3.3"L x 1.5"W x 0.4"H
- Includes: Ground terminal



Part No.	Description	1	10	100
99362CM	IC straightener	\$6.95	\$6.26	\$5.63

## 33' Magnetic Tip Tape Measure

Retractable measuring tape's case has a rubber finish for easy grip and yellow contrast for easy visibility.

- 1" wide
- Metric and inches with 1mm and 1/16" scales
- Triple riveted magnetic end hook
- Bottom & side buttons for temporary tape lock
- Front thumb lock for permanent locking of tape measure • Belt clip and strap

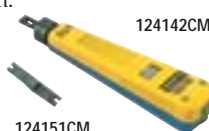


Blue Part No. = Limited Quantity Available

Part No.	Description	1	5
261833CM	Measuring tape	\$7.69	\$6.89

## Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare blade storage in the handle.



- One-year warranty
- 124142CM: For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H
- 124151CM: Blade for 110-type terminals

Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
124142CM	# 3527 Tool w/ 66 blade	\$47.89	\$43.53
124151CM	110 blade	\$17.99	\$16.19

## Impact Punch-Down Tools

- Reversible clip-in blade
- Adjustable (HI-LO) spring-loaded impact mechanism
- Storage bin on handle for spare blade

175071CM: Tool with blade

- For 66-type terminals
- Size: 5.2"L x 1.5"W x 1.0"H
- 324013CM: Tool with blade
- For 110-type terminals
- Size: 5.8"L x 1.7"W x 1.2"H

175089CM: Punch-down blade 110-type terminals

Part No.	Description	1	10
175071CM	Tool with 66 blade	\$34.95	\$31.46
324013CM	Tool with 110 blade	\$37.39	\$33.65
324021CM	Punch-down blade 66	\$14.95	\$13.49
175089CM	Punch-down blade 110	\$14.95	\$13.49



## Digital Display Calipers

Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- Calipers measure to 6 inches/150mm
- One-year warranty



Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783CM, pg 251)

Part No.	Description	1	10	25
127482CM	Digital disp. calipers	\$64.95	\$58.46	\$52.61

## Metal Dial Calipers

Choose Metric or Inches

- For accurate measurements every time
- Measures outside, inside and depth
- Easy-to-read dial gauge
- Length: 6" (150mm)
- Materials: metal
- Color: silver



Includes: Fitted plastic storage case

Part No.	Description (min. reading)	1	10	25
116134CM	Metric (.02 mm)	\$29.95	\$26.96	\$24.26
116126CM	Inches (.001 inch)	\$29.95	\$26.96	\$24.26
684499CM	Metric/Inches	\$43.75	\$39.35	\$35.41



## 3X, 3-Bulb Magnifying Lamp

Adjustable rectangular 3-diopter lens allows independent movement of the lens for best lighting and viewing angles. Three 9-watt compact fluorescent bulbs located to the side and top of the lens provide superior lighting to your workspace or job at hand. The integral spring-balance arm reduces the chance of pinched hands from springs, and provides a sleek clean look.

- 47" long arm
- 2 on/off buttons
- Color: beige
- UL listed
- Weight: 8.15 lbs.

Part No.	Description	1	10	25
217517CM	Adj. magnifying lamp	\$79.95	\$74.95	\$69.95

## 3X Magnifying Lamps

- 45" extension arm
- Supplied with 22-watt circuline tube
- New wire clip design permits easy installation
- Extra strong, all-metal mounting base with electrical outlet
- Metal bulb holder for extra protection
- 3-diopter lens
- Power req.: 110VAC/60Hz
- Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829CM	Black lamp	\$59.95	\$53.95	\$49.95
149981CM	White lamp	59.95	53.95	49.95

## Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts & turns in any direction
- Uses 60W incandescent bulb (not included)
- Power requirement: 110VAC/60Hz
- 3-diopter lens
- Weight: 2.9 lbs.

Part No.	Description	1	10	25
22710CM	Magnifying lamp	\$26.49	\$25.19	\$23.89

## Precision 5X Magnifying Lamp

The arm extends to 40", is adjustable to any direction or angle, and has a 5 diopter. This is the perfect tool to help identify small electronic components and magnify a printed circuit board to help solder electronic components.

- 5" diameter lens
- Weight: 7.1 lbs.
- Power requirement: 110VAC/60Hz

**Includes:** 22W circuline fluorescent bulb

Part No.	Description	1	10	25
197456CM	Magnifying lamp	\$109.95	\$98.95	\$88.95

## 30-Day Money-Back Guarantee

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

## Tweezers with 8X Magnifier

The perfect combination hand tool for professionals working with small objects. Magnifying glass stays in perfect focus with tweezer heads.

- Stainless steel construction
- Precision tip tweezers
- 1.2" diameter 8 diopter lens
- Length: 3.8"

Part No.	Description	1	5
217824CM	Tweezer magnifier	\$6.29	\$5.99

## Vacuum Tweezers

Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.

- Size: 2.9"L x 0.6"W
- One-year warranty
- Includes:** 5 pads sizes 0.14" to 0.4"; 5 straight tips and 2 pieces 45° angle tips

Part No.	Description	1	10
88268CM	Vacuum pick & place kit	\$32.95	\$29.65

## 4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long

Part No.	Description	1	10	25
172638CM	4-piece tweezer set	\$11.95	\$10.95	\$9.95

## PLCC Surface Mount and DIP IC Extractors



- Size: 4.0"L x 2.0"W (both)

Part No.	Product No.	Description	1	10	100
16766CM	HT103B	PLCC ...	\$3.95	\$3.55	\$3.19
16838CM	HT103A	DIP	1.49	1.25	1.09

## Anti-Static Equipment

### Protective Coiled Grounding Wrist Strap

- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Extended cord: 9' long
- Color: black
- Includes:** 1MΩ resistor for added safety

Part No.	Description	1	10	100
34551CM	Anti-static strap	\$6.49	\$5.85	\$5.29

### 3M Disposable Anti-static Wrist Strap

Disposable wrist strap for one time use and low durability applications. A hypoallergenic adhesive provides 360° contact with the skin to minimize skin-to-band resistance. The conductive adhesive on the copper foil adheres to any convenient electrical ground. A current limiting resistor is fabricated into the plastic ribbon below the wristband. One size fits all.

- Ship along with components and devices such as integrated circuits and computer peripheral cards

Part No.	Product No.	1	10	25
285456CM	3M 2209	\$1.39	\$1.32	\$1.25

### Conductive Anti-Static Foam and Bags

**Don't get zapped!**

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

**13864CM:** 24.0"L x 12.0"W x 0.25"H

\* Prepackaged: order in increments of 5

Part No.	Description	1	5
13864CM	Anti-static foam	\$9.29	\$8.35
78668CM	4" x 6" anti-static bags	*	.16
78650CM	8" x 10" anti-static bags	.69	.51

### Anti-Static Work Mats

Make your work environment safe from static discharge! These mats are made of attractive semi-conductive vinyl that provide adequate discharging, yet will not short leads or pins.

Blue Part No. = Limited Quantity Available

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575CM	11.3" x 22" ⊕	0.7	\$9.95	\$8.96	\$8.06
10583CM	19.5" x 23.5" ⊕	1.1	13.95	12.59	11.35
236540CM	23.5" x 27.5" ⊕	1.4	24.95	22.49	20.19



# Soldering/Desoldering Stations & Accessories

Color Code Legend			
New	Sale	Lower\$	QtySave



## 45-Watt Analog Display Soldering Station

### Grounded Soldering Tip

- 500°F to 850°F • Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 7.0"L x 4.5"W x 3.5"H • Weight: 2.5 lbs.

**Includes:** Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

Part No.	Product No.	Description	1	10	25
229673CM	XYT379-C	45-Watt soldering station	\$59.95	\$53.95	\$48.95
156814CM	XYB01	Sharp conical chisel 1/32" tip	4.95	4.49	3.95
156822CM	XYB04	Conical chisel 1/16" tip	4.95	4.49	3.95
134631CM	SP715	Replacement sponge	2.99	2.69	2.49



## 60-Watt Desoldering & Solder/Desoldering Stations



125508CM

- Simple fine tune feature to select within 300–850°F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- CMOS devices protected against voltage spikes

**125508CM:**

- Size: 9.2"L x 7.2"W x 3.6"H
- Weight: 13.1 lbs.

**Includes:** XYD12 tip and solder holder

**125516CM/223853CM:** Size: 11"L x 10"W x 4.0"H; Wt.: 18.1 lbs.

**Includes:** XYD12 tip, solder holder, tip cleaner and tweezers

**223853CM:** Dual display of tip temperature with selector switch for °C or °F and read/set temperature

☑ Blue Part No. = Limited Quantity Available



125516CM

223853CM



## 60-Watt Soldering Stations

Designed for soldering situations where precise temperature is required for sensitive components.

- Temperature is maintained at ±6°F
- Electronic temperature control from 392° to 878°F
- External calibration port
- CMOS devices protected against voltage spikes
- Power-on and heater-on LED indicators
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

**Includes:** One 1/16" tip (P/N 35115CM – below)

Part No.	Product No.	Description	1	10	25
236101CM	XY9-60D/ESD	Digital soldering station – ESD safe	\$109.95	\$99.95	\$89.95
219627CM	XY9-60A	Analog soldering station	99.95	89.95	79.95
168401CM	TWZ50ESD	SMD tweezer iron w/ 0.078" tip	74.95	67.46	60.71
168583CM	46-060102	Tip .078" for P/N 168401CM	11.95	10.79	9.69
168591CM	46-060115	Tip .590" for P/N 168401CM	12.95	11.69	10.49
236460CM	78-744615	Replacement sponge for both stations	2.99	2.69	2.49



**Special**

**5% Bundle Savings**

Complete ISO 9000 digital station –

P/N 236101CM & 125508CM

Sold separately \$409.90

Combined: P/N 207263CM

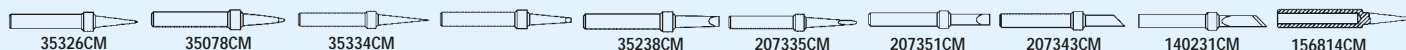
**\$388.95**

Part No.	Product No.	Description	1	10	25
125508CM	968	Desoldering station	\$299.95	\$269.99	\$242.99
125516CM	988	Solder/desoldering station	399.95	359.99	323.99
223853CM	988D	Solder/desoldering (dual display)	459.95	413.95	372.55
207271CM	TWZ60ESD	SMD tweezer iron with .078" tip	69.95	62.95	56.95
207221CM	D1A60A	Replacement desoldering iron	74.95	63.71	58.20
168583CM	46-060102	Tip .078" for P/N 207271CM	11.95	10.79	9.69
168591CM	46-060115	Tip .590" for P/N 207271CM	12.95	11.69	10.49
236460CM	78-744615	Replacement sponge for all stations	2.99	2.69	2.49

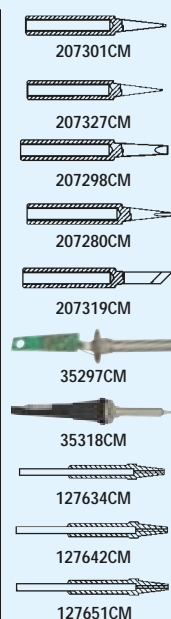
### Replacement Sponges for Legacy Models

Part No.	Product No.	For Station	1	10	100
134640CM	SP815	168-3C	\$2.99	\$2.55	\$1.95
134631CM	SP715	XY-60D, XY-379 & P/N 229673CM	2.99	2.69	2.49

## Tips & Replacement Parts for XYTRONIC Soldering and Desoldering Products



			For XYTronic Model Numbers (*Legacy Models)										Pricing			Lower \$\$\$
			168ESD	200C, 200PHG	379	XY960A 168SD	960*	968	988	999SD*	JS258*	168-3C	268D*	1	10	25
Part No.	Cross Ref. No.	Description														
35326CM	XY401	Soldering tip - conical bevel 1/32"		✓	✓		✓	✓			✓	✓	✓	\$4.49	\$3.95	\$3.65
35078CM	XY402	Soldering tip - semi-chisel 1/32"		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35334CM	XY403	Soldering tip - conical sharp 1/64"		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35115CM	XY404	Soldering tip - conical chisel 1/16"		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
35238CM	XY405	Soldering tip - semi-chisel wide 1/8"		✓	✓		✓	✓			✓	✓	✓	4.49	3.95	3.65
207335CM	XY406	Soldering tip - long conical chisel 3/64"		✓	✓		✓	✓			✓	✓	✓	2.95	2.69	2.39
207351CM	XY410	Soldering tip - chisel 3/16"		✓	✓		✓	✓			✓	✓	✓	2.95	2.51	1.88
207343CM	XY411	Soldering tip - wedge 3/16"		✓	✓		✓	✓			✓	✓	✓	2.95	2.69	2.39
140231CM	XY430	Soldering tip - SMD flat pack 7/32"		✓	✓		✓	✓			✓	✓	✓	8.95	7.95	7.25
156814CM	XYB01	Soldering tip - sharp conical chisel 1/32"	✓			✓			✓					4.95	4.49	3.95
207301CM	XYB02	Soldering tip - conical semi-sharp 1/32"	✓			✓			✓					4.95	4.21	3.16
207327CM	XYB03	Soldering tip - conical sharp 1/64"	✓			✓			✓					4.95	4.49	3.95
156822CM	XYB04	Soldering tip - conical chisel 1/16"	✓			✓			✓					4.95	4.49	3.95
207298CM	XYB05	Soldering tip - semi-wide chisel 1/8"	✓			✓			✓					4.95	4.21	3.16
207280CM	XYB06	Soldering tip - long conical chisel 3/64"	✓			✓			✓					4.95	4.49	3.95
207319CM	XYB30	Soldering tip - wedge blade 3/16"	✓			✓			✓					8.95	7.61	5.71
35297CM	XY37	Heating element - (nichrome)		✓	✓		✓				✓		✓	20.95	18.95	16.95
35318CM	XY48	Assembly - 60W w/ nichrome heater		✓	✓		✓				✓		✓	30.95	27.95	24.95
127634CM	XYD10	Desoldering tip - 1.0mm (.0394")						✓	✓	✓	✓			8.95	7.95	7.25
127642CM	XYD12	Desoldering tip - 1.2mm (.0472")						✓	✓	✓	✓			8.95	7.95	7.25
127651CM	XYD15	Desoldering tip - 1.5mm (.0586")						✓	✓	✓	✓			8.95	7.95	7.25



☑ RoHS compliant product ☑ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. [Details on page 1.](#)

## Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temp. is electronically controlled from 350° to 850°F
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

**Includes:** ST3 1/8" screwdriver tip and manual

Part No.	Prod. No.	Description	1	10
146595CM	WLC100	Soldering station	\$48.95	\$44.09

## Weller® Soldering Tips

Replacement Tips for WLC100, WP25 & WP23

Part No.	Prod. No.	Description	1	10
146608CM				
146616CM				
146624CM				
146608CM	ST1	Screwdriver tip 1/16"	\$5.95	\$5.35
146616CM	ST3	Screwdriver tip 1/8"	5.95	5.35
192145CM	ST6	Screwdriver tip .031"	5.25	4.75
146624CM	ST7	Conical tip 1/32"	5.95	4.95

## Weller® 42-Watt Controlled-Output Soldering Station

- Transformer powered soldering station complete with macro style, low voltage, temp. controlled soldering iron
- Closed loop method of controlling maximum tip temperature for protection of temperature sensitive components • 120VAC @ 60Hz input
- Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

**Includes:** Soldering iron and PTA7 tip (below)

Part No.	Prod. No.	Description	1	10
170552CM	WTCP	Solder station	\$129.95	\$124.95
192161CM	TC201T	Replac. iron	68.95	62.05
192170CM	PTA6	.062" screwdriver tip (600°F)	6.95	6.25
192188CM	PTA7	.062" screwdriver tip (700°F)	5.69	5.15
192196CM	PTA8	.062" screwdriver tip (800°F)	5.69	5.15

## 60-Watt Analog Display Soldering Station

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control: 300°F to 850°F
- CMOS devices protected against voltage spikes
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.

**Includes:** One 1/16" tip (P/N 35115CM, pg 302)

236460CM: Replacement sponge

Part No.	Product No.	1	10	25
236110CM	168-3C	\$89.95	\$79.95	\$72.95
236460CM	78-744615	2.99	2.69	2.49

## 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity
- Temperature range: 350°F to 850°F
- Temp. accuracy: ±9.0°F
- ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H
- Weight: 4.0 lbs.

**Includes:** PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

Part No.	Product No.	Description	1	10
217461CM	WES51	Analog	\$115.95	\$105.95
233533CM	WESD51	Digital	158.95	150.99

## Weller® Soldering Tips

Replacement Tips for WES51 & WESD51

- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Additional tips can be special ordered

Part No.	Prod. No.	Description	1	10
16774CM				
16782CM				
16803CM				
16811CM				
16774CM	ETA	Screwdriver 1/16"	\$6.95	\$6.25
16782CM	ETJ	Long screwdriver 1/32"	6.95	6.25
16803CM	ETR	Narrow screwdriver 1/16"	6.95	6.25
16811CM	ETS	Long conical 1/64"	6.95	6.25



## SMD Tweezer Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- Max. temp.: 760°F • 120VAC
- Heater insulation exceeds 100MΩ
- Heater power consumption: 35W ea.

**Includes:** 0.095" tip

Part No.	Description	1	10	25
168410CM	Tweezer iron	\$59.95	\$53.95	\$48.95
168583CM	Tip .078"	11.95	10.79	9.69
168591CM	Tip .590"	12.95	11.69	10.49



## ESD-Safe, Lead-Free Soldering Station

The many features of this product make it the ideal tool for service and repair technicians as well as production line soldering operators.

- This unit has been developed to meet the present and future RoHS-compliant soldering needs of the electronic production industry and is ideal for use at any AC outlet.
- Specifically designed for RoHS-compliant soldering
- ±3°C temp. stability • 100W, 115/230VAC 50/60Hz
- Temperature adjustable 0-45°C (0-85°F)
- 24VAC Hi-Recovery nichrome heating
- Auto power down idle circuitry, 15-min non-operation
- 45 second ramp time to max temp setting
- Full digital LED readout in both °C and °F
- Easy external calibration port
- Slimline ergonomic pencil design for maximum dexterity and comfort
- Revolutionary "Zero Voltage" electronic switching design protects voltage and current-sensitive components against damaging current and transient voltage spikes
- Pb-free (lead-free) soldering application qualified
- Size: 6.1"W x 6"D x 4"H • Weight: 8.0 lbs.

Part No.	Description	1	5
667551CM	LF-1000 soldering station	\$179.95	\$170.95

## Weller® Soldering Tips

Replacement Tips for WSL

Part No.	Prod. No.	Description	1	5
233576CM				
233550CM				
233541CM				
233576CM	NT1X	0.8mm bent round	\$10.45	\$9.95
233550CM	NTA	0.6mm chisel	8.59	8.29
233541CM	NT1	0.25mm micro	9.99	8.29



## SMD Rework Station

- High-performance, inexpensive, versatile
- Adjustable temp.: 250-450°C (482-842°F)
- Long-life ceramic heating element
- Rapid heat-up and recovery
- Thermocouple sensor for stable temperature • Size: 7.4"L x 5.0"W x 3.3"H
- 40W station, 25W ceramic element • Weight: 2.6 lbs
- Includes:** Base power unit, sponge, stand, surface mount tweezer iron, and stand for tweezers

Part No.	Description	1	10	25
224629CM	Rework station	\$89.95	\$80.99	\$72.85
168583CM	.078" tip	11.95	10.79	9.69
168591CM	.590" tip	12.95	11.69	10.49



Over 99% of Our Catalog Products Are in Stock

Place your order by 6PM EST for same business-day shipment.



## 16 to 30-Watt Variable Soldering Iron, Stand & Sponge

116572CM:  
• Length: 7.5"

36329CM:  
• Black anodized steel base – 5.3"L x 3.3"W  
• See below for replacement sponge (P/N 134631CM)  
• Fits most soldering irons .85" diameter

Includes: Sponge

Part No.	Description	1	10	100
116572CM	Soldering iron	\$16.95	\$15.29	\$13.75
36329CM	Soldering stand	4.95	4.46	4.01
134631CM	Sponge (for P/N 36329CM)	2.99	2.69	2.49



## Thermally Balanced 25-Watt Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

• 120VAC; 6' cord • 25-watt power consumption  
• Interchangeable tips (pg 302) • UL listed  
• Length: 8.0" • One-year warranty

Includes: 1.6mm conical tip

Part No.	Description	1	10	25
129040CM	25W solder. iron	\$11.49	\$10.35	\$9.35

## Weller® High-Quality 25-Watt & 35-Watt Soldering Irons

• Interchangeable heater elements  
• Lightweight handle with cushioned grip  
• Quick change knurled collar  
• Length: 9"  
• 120VAC @ 60Hz

Includes: Power cord & ST3 tip (pg 303)

Part No.	Product No.	Description	1	10
170587CM	WP25	25W solder iron	\$32.95	\$31.35
192102CM	WP35	35W solder iron	39.95	35.95
192153CM	PH25	Solder iron stand	17.59	16.69

## Weller® 100-Watt Soldering Iron

• "Closed loop" method of controlling max. tip temperature  
• Nominal heat-up time with 700°F tip is 110 seconds  
• 120VAC @ 60Hz input  
• Length: 6"

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

Part No.	Prod. No.	Description	1	5
192081CM	W100PG	Solder iron	\$62.95	\$59.79
192090CM	CT6F7	.375" scrwdrv tip	8.59	7.75

## Vacuum Pen Tools

• ESD safe body  
• Picks up components with weight of 1.1 lbs. or less

Part No.	Description	1	10	25
207239CM	Handivac tool	\$19.99	\$17.99	\$16.19
207247CM	Pen vac tool	37.95	34.25	30.49

## Special! Low-Cost Irons

### 30-Watt Soldering Iron and Stand

- UL approved
- Ideal for precision work
- 1/4" removable tip
- Length: 8.3"
- 110-120VAC

Part No.	Description	1	10	100
102461CM	30W soldering iron	\$4.99	\$4.49	\$4.04
116020CM	Replacement tips (2)	2.25	1.91	1.43
36329CM	Soldering stand	4.95	4.46	4.01

### 35-Watt Soldering Iron

- UL approved
- Ideal for maintenance and hobby use
- 0.157" removable tip
- Length: 8.1"
- 110-120VAC

Part No.	Description	1	10	100
208987CM	35W soldering iron	\$2.99	\$2.69	\$2.45
208995CM	Replacement tips (2)	.99	.89	.79
209074CM	Solder roll, 8mm (.031")	6.35	5.69	5.15



## Economical, High-Performance Soldering Irons

High-quality soldering irons that are suitable for both professional and do-it-yourself applications.

• 25W, 40W, & 60W • Length: 9"  
• 120VAC; 6' cord with 3-prong plug

Tips for 224611CM/224602CM:  
226000CM chisel; 226018CM conical  
Tips for 195223CM:  
226026CM chisel; 226034CM conical

Part No.	Product No.	1	10	25
224611CM	200PHG-25W	\$7.95	\$7.15	\$6.45
224602CM	200PHG-40W	8.95	8.06	7.25
195223CM	200PHG-60W	13.95	12.49	12.11
226000CM	44-240517 tip	.95	.85	.79
226018CM	44-240513 tip	.95	.85	.79
226026CM	44-240617 tip	1.95	1.79	1.59
226034CM	44-240603 tip	1.95	1.79	1.59

## Weller® Cordless Soldering Iron Kit

- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level
- Additional tips can be special ordered
- 2 hours of heat on average tank setting

Includes: Soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual

Part No.	Prod. No.	Description	1	5
152207CM	PSI-100K	Tool kit	\$79.95	\$75.95

## Butane-Powered Cordless Soldering Iron and Tips

Quantity SAVE



This butane-powered soldering iron is designed for many popular cordless applications. Most common are automotive repair, aviation, electrical components, field repair, shrink tubing, television repair and more.

- Cordless, simple operation in the shop or field
- No electrical interference
- Automatic ignition
- Up to 200 minutes of operation in a full load
- Soldering temperature range: 240°F to 1000°F
- Torch temperature: 2400°F

Part No.	Cross Ref. No.	Description	1	5
255265CM	PRO-120	Soldering iron	\$41.95	\$39.85
262107CM	S-30	Tip, deflector	1.19	1.09
255273CM	PS-1	Tip, 1/32" flat	8.35	7.95
255290CM	PS-2	Tip, 3/32" flat	8.99	8.75
255302CM	PS-3	Tip, 1/8" flat	8.99	8.75
255311CM	PS-4	Tip, 3/16" flat	8.99	6.74
255329CM	PS-5	Tip, 1/32" chisel	8.99	6.74
255337CM	PS-6	Tip, 3/32" chisel	8.99	8.75
255361CM	PS-9	Tip, hot knife	8.99	8.75
255370CM	PS-10	Tip, hot blower	8.99	8.75

Blue Part No. = Limited Quantity Available

## Weller® Butane Powered Cordless Soldering Iron

- Cordless, simple operation
- Built-in on-off switch
- Length: 8.5"
- Can be used as a torch or hot blower
- Maximum temperature: 450°C (842°F)
- Average use of 40 minutes on a full load

Part No.	Prod. No.	Description	1	10
645520CM	GASIRON2	Soldering iron	\$29.55	\$28.15
645554CM	GASIRON2/SPB	Replacement tip	1.79	1.69

## WAHL® Cordless Soldering Iron

The #1 choice for field service soldering!

IsoTip® Power Pro Model #7904

- 900°F tip temperature
- LED indicator light
- Solders 200+ joints or up to 30 minutes of continuous soldering
- Iron performance equivalent to 25-watt iron
- Weight: 1.1 lbs.

Includes: Soldering iron, recharging stand, NiCd battery pack, and tips

Part No.	Description	1	10
132783CM	Power Pro cordless iron	\$61.95	\$58.85

If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.



## Electric & Manual Desolder Pumps

- Easily disassembled for cleaning
- Replacement tips available



19254CM:

- UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.



19254CM



305226CM











305218CM



19166CM

305218CM/305226CM: Size: 13"L x 1.0"Dia.

Part No.	Description	1	10
19254CM	Electric desolder pump 	\$26.95	\$23.95
19166CM	Manual desolder pump 	4.95	4.49
305218CM	Man. desolder pump (ESD safe) 	18.95	17.99
305226CM	Manual desolder pump 	14.75	13.99
19262CM	1 tip for 19254CM 	4.95	4.49
22091CM	2 tips for 19166CM 	4.49	3.95
307774CM	1 tip for 305218CM 	4.55	4.35
307782CM	1 tip for 305226CM 	2.39	2.27

## Solder Spool & Iron Stand

- 4 pc. spool stand (some assembly required)
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Shaft diameter: 0.6" • Wt.: 2.0 lbs.



Solder not included

Part No.	Description	1	10	100
169551CM	Spool & iron stand 	\$16.95	\$15.29	\$13.75

## Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft dia.: 0.6" • Weight: 1.6 lbs.




Solder not included

Part No.	Description	1	10	100
141760CM	Solder spool stand 	\$8.95	\$7.95	\$6.95

## Vacuum Vise

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up • Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs. • One-year warranty



Part No.	Cross Ref. No.	1	5
262115CM	GV-300 	\$47.19	\$44.85

## Clamp Vise

- No tools needed—finger turn to tighten
- Ball cup allows vise to adjust to any angle
- Nylon jaws open 2"
- Size: 10.0"L x 2.5"W • Weight: 2.1 lbs.



Part No.	Description	1	10
127167CM	Clamp vise 	\$17.95	\$16.99

## PANAUSE Vacuum Vise

- Patented "split ball" feature tilts/turns/rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up • Weight: 3.3 lbs.
- Size: 5.0"L x 4.0"W x 6.3"H • One-year warranty







Part No.	Product No.	1	10
27131CM	M381 	\$55.95	\$53.25

## Solder Bars

- Used with solder pots
- Size: 13"L x 0.9"Dia.
- 176057CM: 60/40 170464CM: 63/37
- 668406CM: 99.3% tin, 0.7% copper
- 668414CM: 96.3% tin, 3.2% silver, 0.5% copper
- 668422CM: 96.5% tin, 3.5% gold



170464CM

Part No.	Description	Wt. (lbs.)	1	10	25
176057CM	60/40 	1.1	\$8.49	\$7.65	\$6.89
170464CM	63/37 	1.8	11.95	11.33	10.77
668406CM	99.3/7 	2.2	33.79	31.95	30.11
668414CM	96.3/3.2/5 	2.2	67.89	61.69	55.53
668422CM	96.5/3.5	2.2	73.99	67.24	60.52



## 300-Watt Solder Pot

Temperature Regulated  
Between 420°C and 450°C

- HI/LO temperature switch
- 2 conductor power cord: 5' 9" long
- Holds up to 1 bar of P/N 176057CM or 170464CM, above
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.
- Size: (tub) 2.4"Dia. x 1.6"D • One-year warranty



160303CM

Part No.	Description	1	10	25
160303CM	300W solder pot 	\$64.95	\$58.49	\$52.65
668043CM	300W solder pot 	146.95	139.59	132.65



## 600-Watt Solder Pot

Temperature Adjustable

- 2-wire power cord (5'5")
- Temperature: 0°C to 500°C
- Self regulating temperature
- Input voltage: 110VAC @ 5.5A
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 176057CM or 170464CM, above
- Size: (unit): 6.8"L x 5.5"W x 2.8"H
- Size: (tub): 3.9"L x 1.6"D • Weight: 7.4 lbs.




172275CM

Part No.	Description	1	10
172275CM	600W solder pot 	\$189.95	\$180.45
668051CM	600W solder pot 	291.59	276.09


## 2000-Watt Solder Pot

- Thermostat control for setting temp. from 50°C to 300°C
- Holds up to 48 bars of P/N 176057CM or 170464CM, above
- 3 conductor pigtail power cord: 5' long
- Input voltage: 110VAC @ 18A, 50-60Hz single phase
- Size: (unit): 18.1"L x 11.5"W x 6.0"H
- Size: (tub): 12.0"L x 8.0"W x 2.9"H
- Weight: 23.1 lbs. • One-year warranty



Part No.	Description	1	5
149876CM	2000 watt solder pot 	\$399.95	\$359.95

## PANAUSE Vacuum Base Vise

- Lever locks vacuum pad into place on any flat, smooth, non-porous surface
- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment knobs control jaw pressure
- Arm movement is 140°; positive indents control movement to prevent "flopping" • Jaw size: 2"H x 1"W
- Base diameter: 3.4" • Overall height: 7.5"H
- Weight: 0.8 lbs.  Limited Quantity Available



Part No.	Product No.	1	10
251791CM	209 	\$29.99	\$27.59

## Fume Extractor

Designed to remove solder flux fumes and other work place fumes from the operator's breathing zone. Uses activated-carbon filter and a high efficiency fan. Air is filtered, cleaned, and returned to the workplace.



- Input voltage: 110 – 120V
- Power: 20W
- Fan specifications: 50dB S/N ratio: 87cfm
- Size: 8.3"H x 8.3"W x 5.3"D • Weight: 3.3 lbs.
- Arm length: 29"

Part No.	Product No.	1	10
667420CM	GS-630A	\$54.09	\$51.25
672579CM	GS-628-08 (carbon filter 3pk.)	15.99	14.39

## Weller® Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable allowing it to be set-up in multiple positions.



- Voltage: 120VAC • Sound level: 45-50dB
- Air consumption: 87-107CFM • UL/CUL listed
- Power consumption: 20W • ESD safe
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H • Weight: 4.2 lbs.



Part No.	Product No.	1	5
684810CM	WSA350 	\$47.95	\$44.95
684828CM	WSA350F (carbon filter)	7.15	6.79

## Fume Extractor and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack • Fuse protected
- Air flow: 115 CFM • Noise: 49dB fan
- 20VAC, 60Hz, 22 watt
- Aerodynamic hood design for effective removal of solder fumes
- Black anodized aluminum case
- Removable carbon-impregnated filter
- Size: 6.4"W x 4.6"D x 7.9"H
- Weight: 4.6 lbs. • One-year warranty



Part No.	Description	1	10	25
120150CM	Fume extractor 	\$58.95	\$52.95	\$47.79
127183CM	Replace. filters (2/pk) 	12.95	11.66	10.49

## Combination 42-Watt Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500° to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D • Weight: 5.2 lbs.



Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

Part No.	Product No.	1	10
183169CM	456DLX 	\$89.95	\$86.29

JAMECO  
BenchPro

## Soldering Gun

This soldering gun with nozzle guide for solder is perfect for soldering through-hole components. Trigger action pulls out solder from the back of the soldering gun to the tip for the exact amount of solder.

**SALE**

- Power consumption: 40W • 120 VAC
- Solder entrance at the back of gun accepts 0.8mm to 2.3mm diameter solder
- Single hand operation • Lightweight
- Size: 7.5"L x 1.4"W x 5.9"H • Weight: 0.7 lbs.

⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	25
<b>319169CM</b>	Single feed soldering ⊕	\$32.95	\$31.35	\$28.25

## Soldering Tip Cleaner with Stand and Rosin Paste Flux

156777CM:

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



156777CM

73584CM

**73584CM:** Highly active non-corrosive and non-conductive flux with excellent wetting action

Part No.	Description	1	10	50
156777CM	Tip cleaner & stand	\$4.95	\$4.49	\$4.05
160004CM	Metal wool replacement	2.79	2.49	2.29
73584CM	Rosin paste flux (2 oz.) ⊕	2.95	2.36	1.77

## Lead-Free Solder Tip Tinner

Prevents oxide buildup and tin depletion on the tip. Increases tip life and heat transfer resulting in a better solder joint!

- 0.7 oz. tin with self adhesive pad



Safe and Effective!

Part No.	Description	1	10	50
132986CM	Lead-free tip tinner ⊕	\$4.95	\$4.59	\$4.19

TEHSRAY

## 5' No-Clean Desolder Braids

Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002.

- Length: 5'



139951CM



124126CM

Part No.	Description	1	10	100
139951CM	.030"W desolder braid	\$2.79	\$2.49	\$2.09
124126CM	.060"W desolder braid	2.55	2.33	2.11
124118CM	.075"W desolder braid	2.59	2.33	2.11
263708CM	.098"W desolder braid	2.89	2.64	2.51

## 5' Desoldering Braids

- Easy-to-use, handy dispenser
- Braided copper with flux



41099CM

Part No.	Description	1	10	100
41081CM	.079"W braid (5') ⊕	\$1.49	\$1.27	\$ .95
41099CM	.098"W braid (5') ⊕	1.55	1.29	1.15
153461CM	.120"W braid (5') ⊕	1.59	1.39	1.25

73576CM

32117CM



170456CM

141778CM



\* Organic core

## Rosin Core Solder Rolls and Pocket Packs

Part No.	Manufacturer	% Composition				Dia. (in.)	Wt. (lbs.)	Pricing			
		Tin	Lead	Silver	Copper			1	10	50	100
668078CM	—	99.3	—	—	0.7	0.04	0.6	\$10.45	\$8.64	\$8.20	\$7.79
668262CM	—	96.3	—	3.2	0.5	0.04	0.6	15.45	13.27	12.61	11.98
668271CM	—	96.5	—	3.5	—	0.04	0.6	16.85	14.47	13.75	13.06
668289CM	—	99.3	—	—	0.7	0.04	1.1	19.39	15.69	14.91	14.16
668297CM	—	96.3	—	3.2	0.5	0.04	1.1	28.59	23.33	22.17	21.06
668318CM	—	96.5	—	3.5	—	0.04	1.1	31.19	25.43	24.16	22.95
668326CM	—	99.3	—	—	0.7	0.04	2.2	38.75	31.39	29.82	28.33
668334CM	—	96.3	—	3.2	0.5	0.04	2.2	57.19	46.66	44.33	42.11
668342CM	—	96.5	—	3.5	—	0.04	2.2	62.39	50.86	48.32	45.90
141794CM	Super ⊕	60	40	0	—	0.031	0.55	5.95	5.39	4.85	4.35
141786CM	Super ⊕	60	40	0	—	0.031	1.10	7.95	6.95	6.25	5.82
141778CM	Super ⊕	60	40	0	—	0.031	2.20	13.95	12.95	11.95	11.43
170456CM	Golden ⊕	60	40	0	—	0.031	0.06	1.39	1.25	1.05	.99
73576CM	Kester (pak) ⊕	60	40	0	—	0.031	0.04	2.59	2.33	2.10	1.75
32117CM	Kester ⊕	60	40	0	—	0.031	1.00	13.55	12.25	11.05	9.95
73605CM	Kester (pak) ⊕	62	36	2	—	0.020	0.10	1.25	.99	.97	.96
112344CM	Kester	63	37	0	—	0.020	1.00	19.49	18.50	18.27	18.14
151474CM	Kester ⊕ *	63	37	0	—	0.031	1.00	18.39	16.55	14.89	13.39



## ProWick® Desoldering Braid

## Pure Rosin

Finest oxygen-free and oil-free fine-gauge wire, the 100% copper wick is then coated with flux, which cleans connections thoroughly during desoldering to insure maximum solderability. The thin coating of flux also provides dependable, long lasting protection from oxidation.

- 263581CM with bobbin • Length: 5'



263695CM

Part No.	Product No.	1	10	100
263695CM	1803-5F (0.075"W) <b>R</b>	\$2.09	\$1.90	\$1.80
263599CM	1804-5F (0.098"W) <b>R</b>	2.39	2.25	2.04
263581CM	1811-5F (0.098"W) <b>R</b>	2.65	2.47	2.25

## Angled Bottle

An 8 oz. squeeze bottle made of polyethylene plastic that is ESD safe. Nozzle is angled making it easier for applications in tight places.



Part No.	Description	1	5
667471CM	Angled bottle	\$7.45	\$7.08

## Flux Dispensing Bottle with Capillary Needles

An 8 oz. squeeze bottle made of polyethylene plastic that is ESD safe. Comes with capillary needles in 0.01" and 0.02" diameters, adapter for needles, squirt nozzle and cover.



Part No.	Product No.	1	10
667489CM	RD-7372A	\$6.79	\$6.45

## Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover



Part No.	Description	1	10	50
158131CM	Pump bottle <b>R</b>	\$9.95	\$8.95	\$7.95

## Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W



Part No.	Mfr. Part No.	1	10	25
159126CM	HT156 ⊕	\$2.65	\$2.38	\$2.15

## Heat Sink and 7-Piece Soldering Aid Kit



**100378CM:** Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts  
**100503CM:** Includes soldering wick, 3 pc. scraper set, acid brush, clip-on heat sink and empty squirt bottle

Part No.	Description	1	10	50
100378CM	Heat sink	\$ .45	\$ .40	\$ .36

## Heat Sink Compound

Thermally loaded silicone-based grease that improves transfer of energy across the metal-to-metal interface between transistor or rectifier and heat sink.

- Color: opaque white



Part No.	Mfr. Part No.	1	10	100
167249CM	THM250 (2 oz.) ⊕	\$9.95	\$8.96	\$8.06
236822CM	54114 (1 oz.) ⊕	4.95	4.21	3.16

## Heat Sink Compound 4-oz. Tube

This silicone-free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave-solder baths.



Part No.	Product No.	1	10
169252CM	1978DP <b>R</b>	\$17.99	\$17.19



## GC Heatsink Compounds

### Silicone (Z9)

Industry standard zinc oxide-filled silicone heatsink grease for most applications.

Will not soften at elevated temperatures, dry out or harden. Meets MIL SPEC C-47113

**NEW**

615312CM

Part No.	Prod. No.	Description	1	10	100
615304CM	10-8106	1 lb. can .....	\$29.05	\$27.03	\$23.71
615312CM	10-8108	6.5 gram tube ..	2.29	2.13	1.87
615321CM	10-8109	1 fl. oz. tube .....	6.35	5.89	5.17

### Type 44 Non-Silicone

Compounded with 100% synthetic base stocks. Features excellent heat transfer, efficiency, thermal stability, high flow rate, no separation, bleed or migration typical of silicone-based greases. MIL-C-47113 type 2



615339CM

Part No.	Prod. No.	Description	1	10	100
615339CM	10-8118	1 fl. oz. jar .....	\$7.85	\$7.27	\$6.37
615347CM	10-8120	1 fl. oz. tube .....	8.49	7.95	7.42
615355CM	10-8126	1 lb. jar .....	40.29	37.51	32.89

### HTC (High Thermal Conductivity)

High conductivity formula has all the same benefits of conventional heatsink greases, plus it is exceptionally stable in high humidity applications.



Part No.	Prod. No.	Description	1	10	100
615363CM	10-8135	1 oz. syringe .....	\$11.49	\$10.68	\$9.37

## Soldering Kit

A perfect soldering tool kit for technicians and maintenance professionals doing solder work in the field. This kit includes:

- 100W soldering gun with extra tip, 30W soldering iron, manual desoldering pump, mini third-hand board/component holder, lead solder, soldering aid tool.
- Size: 13.8"L x 11"W x 3"H • Weight: 4.0 lbs.

**NEW**

Part No.	Description	Price
684596CM	GSR-600A .....	\$32.55

## Modern Solder Technology For Competitive Electronics Manufacturing Book

McGraw-Hill

This book covers all relevant technologies for the application of solder in electronic and microelectronic packaging and assembly. Includes a proper level of underlying fundamentals that are important to practical applications. (622 pages, 1996)

- Size: 9.2" x 6.2"

**NEW**

Part No.	Description	Price
677951CM	Modern Solder Technology Book .....	\$85.45

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

## Weller® Pro Cordless Soldering Iron

Using the patented Coldheat™ system, the Weller Pro Cordless melts solder instantly and is cool to the touch in just seconds. But unlike most other products, the Weller Pro has the power industrial professionals need to tin wire as large as 12AWG or join wires from 18-25AWG.

**NEW**



With an average yield of 700 solder joints per 5 AA alkaline batteries, it has what it takes to be an invaluable tool anywhere field soldering is required.

- Polycarbonate body • High/low/off power switch
- Bright white LED work light
- Red "in use" indicator light
- Requires 5 AA alkaline batteries
- Includes carrying case and CHT3 61° angle chisel tip

Part No.	Prod. No.	Description	1	5
684705CM	CHT100	Cordless soldering iron ...	\$40.29	\$37.25
684713CM	CHT1	50° angle bevel tip .....	11.19	10.65
684756CM	CHT2	61° angle conical tip .....	11.19	10.65
684764CM	CHT3	61° angle chisel tip .....	11.19	10.65

## Weller® Digital Soldering Stations

### 684772CM:

- New WP80 soldering pencil offers 80 watts of power with short tip-to-grip (52mm)
- 80W of power
- Barrel can be exchanged with optional longer version to work at standard length (65mm)
- Unique silver heater allows fast, efficient soldering
- Uses WP80 soldering pencil and WD10 soldering stand
- Size: 15.4"L x 10.2"W x 5.2"H • Weight: 8.2 lbs.



684772CM

**NEW**

### 684781CM:

- Extensive special functions menu allows you to use setback, lockout, standby, auto-off time and more
- Heating element is contained in the pencil rather than the tip
- Micro pencil with short tip-to-grip (37mm) puts you close to the work
- Iron stand has adjustable tilt angle in 4 positions ranging from 30 to 80 degrees
- Uses WMP soldering pencil and WD20 iron stand
- Size: 15.9"L x 10.9"W x 5.8"H • Weight: 7.5 lbs.

Part No.	Product No.	Description	1	5
684772CM	WD1002	80W .....	\$279.95	\$269.95
684781CM	WD1001	85W .....	279.95	269.95

## Electronics Manufacturing Book

McGraw-Hill

This comprehensive guide provides cutting-edge information on lead-free, halogen-free and conductive-adhesive technologies and their application to low-cost, high-density, reliable, and green products. Essential for professionals who wish to master lead-free, halogen-free, and conductive-adhesive problem solving methods. (592 pages, 2003)

- Size: 9.2" x 6.3"

**NEW**

Part No.	Description	Price
677994CM	Electronics Manufacturing Book .....	\$91.95

## PANAVISE Multi-Purpose Work Center

- One of the most versatile combinations, perfect for home or hobby needs
- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows the jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Patented single load control knob and split-ball feature firmly lock the head into place
- Base has three 1/4" countersunk mounting holes
- Part tray base contains six integral parts wells with rounded and sloped walls for easy parts removal.

**NEW**



Overall base diameter is 8.5"

Part No.	Product No.	1	5
684852CM	350R .....	\$79.95	\$74.95

## PANAVISE Rapid Assembly Circuit Board Holder

- Features 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds and component insertion
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently and may be positioned adjacent to each other
- 10" high (from base to top of vertical shaft)
- Stable weighted base • Weight: 6.4 lbs.

**NEW**



Part No.	Product No.	1	5
684844CM	333R .....	\$69.95	\$63.95

[www.Jameco.com](http://www.Jameco.com)

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.



## Implementing Lead-Free Electronics Book

McGraw-Hill

This book provides timely information on the choices and trade-offs facing manufacturers converting to lead-free manufacturing. This book is laid out as a quick guide, providing successful examples in conjunction with the basic principles of the implementation and production of lead-free electronics on a global basis. (473 pages, 2005)

- Size: 9.3" x 6.2"

**NEW**

Part No.	Description	Price
677986CM	Implementing Lead-Free Electronics .....	\$89.45





**Focus Hood Tips**  
Dimensions: mm (in.)**Hot Air SMD Rework Station with Digital Display**

The Hot-Air SMD 850D is engineered to meet the demanding needs of today's electronic industry; technicians, service / repair and assembly rework. The system not only increases productivity for SMD assembly and repair but also achieves a new standard of quality.

- Incorporates a US made pump – the largest in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Adjustable air-flow
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Automatic cooling mode protects the heating element
- Power supply: 100-120VAC or 220-240VAC
- Airflow capacity: 1.5L/min. to 28L/min.
- 310W nichrome heating element
- Hot air temperature range: 100° - 385°C (212° - 725°F)
- Size: 7.4"W x 9.6"D x 5.0"H



- 25W diaphragm pump
- Weight: 10.8 lbs.

**Includes:** Precision 5 pc. non-magnetic tweezer set, 4 focus hood tips (single 2.5mm and 4.4mm pipes, P/N 262895CM and 262908CM)

⊕ Blue Part No. = Limited Quantity Available

Part No.	Product No.	Description	1	5
262705CM	850D	Hot air SMD rework station with 4 focus hood tips	\$395.05	\$375.25
262983CM	HG850D	Heat gun replacement	78.95	74.95
262924CM	A1141B	Focus hood tip, PLCC 11.5 x 14	34.95	33.25
262810CM	A1135B	Focus hood tip, PLCC 17.5 x 17.5	34.95	33.25
262959CM	A1136B	Focus hood tip, PLCC 20 x 20	49.95	48.29
262836CM	A1137B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262967CM	A1138B	Focus hood tip, PLCC 30 x 30	49.95	48.29
262895CM	A1125B	Focus hood tip, QFP 10 x 10	34.95	33.25
262908CM	A1126B	Focus hood tip, QFP 14 x 14	34.95	33.25
262772CM	A1128B	Focus hood tip, QFP 14 x 20	34.95	33.25
262916CM	A1127B	Focus hood tip, QFP 17.5 x 17.5	34.95	33.25
262852CM	A1261B	Focus hood tip, QFP 20 x 20	49.95	48.29
262844CM	A1182B	Focus hood tip, BQFP 24 x 24	49.95	48.29
262801CM	A1129B	Focus hood tip, QFP 28 x 28	49.95	48.29
262861CM	A1263B	Focus hood tip, QFP 28 x 40	<del>79.95</del> 69.95	65.95
262887CM	A1265B	Focus hood tip, QFP 32 x 32	79.95	75.95
262879CM	A1264B	Focus hood tip, QFP 40 x 40	79.95	75.95
262932CM	A1258B	Focus hood tip, SOP 7.6 x 12.7	34.95	33.25
262941CM	A1260B	Focus hood tip, SOP 8.6 x 18	34.95	33.25
262975CM	A1259B	Focus hood tip, SOP 13 x 28	49.95	48.29

**CHIPQUIK SMD 2000 Removal System****Complete Solder/Desolder Rework Kit**

- Removal alloy, solder paste, 3' solder, paste flux, liquid flux remover/cleaner, handi vac, 2 acid brushes, precision tweezers, six 4" x 4" cleaning wipes, 10 swabs, 6 alcohol pads, SMD removal/clean up instructions, stainless steel probe kit & 5' solder wick



Part No.	Description	1	10
208055CM	SMD 2000 removal system	\$99.95	\$94.99

**CHIPQUIK****SMD Removal Kit**

- Quick and easy to use
- Potential damage to printed circuit boards is eliminated
- 2.5" of CHIPQUIK® material removes 1250-1500 SMD pins
- Uses simple equipment and materials for application & clean-up



Part No.	Description	1	10
141305CM	SMD removal kit	\$24.95	\$22.45

**Vises****PANA VISE Electronic Work Center****PANA VISE****PV Jr. Vise**

- Jaw opening: 2.8"
- Jaw size: 1" wide x 2" long
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- The vise neck tilts, turns and rotates
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs.
- One-year warranty



- Circuit board holder, standard base, tray base mount, solder station, sponges and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty



Part No.	Description	1	5	10
27060CM	Electronic center	\$74.95	\$71.25	\$67.95

**Lowest Price Guarantee**

Have you found a product at a lower print-advertised price?  
We'll beat that price by 10%, right down to our cost!

**Third Hand**

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight: 0.7 lbs.



⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10	50
26690CM	Third hand	\$5.95	\$5.35	\$4.79
72864CM	Third hand	8.75	7.89	7.15
681002CM	Third hand	8.75	7.89	7.15



- Safe on plastics
- EPA SNAP approved, no CFCs or HCFCs





## Workshop Chemicals




### Envi•Ro•Tech™ Duster

Removes microscopic contaminants, lime, dust, metallic oxide, deposits, and other soils without the use of harmful solvents.

Part No.	Description	Wt. (lbs.)	1	12
139900CM	10 oz. aerosol w/ trigger  *	0.8 ...	\$8.99	\$8.19
263530CM	15 oz. aerosol w/ trigger  *	0.8 ...	11.85	11.35


### Envi•Ro•Tech™ Freezer

Rapidly evaporating liquid that can chill to -62°F.

Part No.	Description	Wt. (lbs.)	1	12
139934CM	10 oz. aerosol can  *	0.8 ...	\$10.79	\$9.65


### ECOLINE Flux Remover

- Dissolves R, RMA, RA, SA & most non-clean fluxes

Part No.	Description	Wt. (lbs.)	1	12
118041CM	10 oz. flux remover  *	0.8 ...	\$9.99	\$9.05

### ECOLINE Contact Cleaner

- Ideal for switches, relays & other places on electrical connections
- Will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033CM	10 oz. contact cleaner  *	0.9 ...	\$9.25	\$8.55

### TechClean® Wiper

This hydro-entangled cellulose/polyester wipe has high absorbency with extra-low particulate and chemical extractables.

Part No.	Description	Wt. (lbs.)	1	12
263564CM	100 sheet/pk	1.1 .....	\$18.19	\$13.64


### Isopropyl Alcohol

99.8%+ pure, anhydrous isopropanol for all-purpose cleaning. Excellent for tape head cleaning, removal of fluxes, light oils, polar soils, and white mineral residue.

Part No.	Description	Wt. (lbs.)	1	12
263572CM	1 pint bottle  *	1.1 .....	\$8.75	\$7.89


### Static Sensitive Brush

- Bristle: 1/8"L x 1/16"W
- Handle: 3.5"
- Machine stamped, proprietary static dissipative

Part No.	Description	Wt. (lbs.)	1	5
481748CM	Brush  *	0.1 .....	\$7.79	\$7.40

### Fine-L-Kote™ Silicone Conformal Coating



A type SR silicone resin conformal coating that has excellent moisture and fungus resistance properties, offers chemical resistance and is recommended for harsh environments. Contains Opti/Scan™ to allow for black light inspection.

Part No.	Description	Wt. (lbs.)	1	12
481756CM	1 pint  *	1.1 .....	\$30.85	\$29.41

## Committed to You


We're committed to providing you with the best service in the industry.

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD. \* Shipped via UPS ground to continental U.S. only

 RoHS compliant product  This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

### Fine-L-Kote™ Urethane Conformal Coating

As a urethane coating, this is highly resistant to most solvents, moisture, fungus, and molds. A clear, repairable coating, it is formulated with a black light indicator Opti/Scan, to provide checks for conformity in quality control.

Part No.	Description	Wt. (lbs.)	1	12
263556CM	12 oz. aerosol can  *	1.0 .....	\$16.89	\$16.19

### Conductive Pen

Contains a fast-drying, silver-filled ink designed to quickly make highly conductive silver traces.


- Repairs traces
- Makes smooth jumpers
- Links components
- Shields components

Part No.	Description	Wt. (lbs.)	1	12
263716CM	4.89 ml pen  *	0.1 .....	\$15.99	\$15.28

### Overcoat Green Pen

Designed to insulate printed circuit board traces and components against high voltage arcing, and provides protection from moisture.

- Protects conductive pen traces
- Repairs permanent solder mask

Part No.	Description	Wt. (lbs.)	1	12
263732CM	5 ml pen  *	0.1 .....	\$11.49	\$10.54

### SMT Stencil Cleaner

Hydrocarbon-based, non-ozone depleting stencil cleaner effectively removes solder paste from screens, misprinted boards, and equipment.

Part No.	Description	Wt. (lbs.)	1	12
481668CM	48 wipes ♣	0.4 .....	\$14.75	\$14.03
481676CM	1 pint trigger bottle ♣	1.1 .....	15.25	14.49

### Zero Charge™ Hand Lotion

Contains natural products including aloe vera and vitamins A and E. Moisturizers penetrate rapidly leaving skin soft and non-greasy. Improves the contact between personnel and grounding devices such as wrist and heel straps.

Part No.	Description	Wt. (lbs.)	1	24
481684CM	8 oz. bottle ♣	1.2 .....	\$5.09	\$4.96

### Zero Charge™ Anti-Static Coating

Fast drying, anti-static coating, eliminates static charge and reduces triboelectric generation from most surfaces. Recommended for applications that experience flexing and movement.

Part No.	Description	Wt. (lbs.)	1	12
481692CM	1 pint bottle ♣	1.1 .....	\$10.29	\$7.79

### Zero Charge™ Mat and Table-Top Cleaner

A neutral pH cleaner for general use in production areas that removes insulating contaminants such as flux residues, oils, greases, nicotine, dirt, and grime.

Part No.	Description	Wt. (lbs.)	1	12
481705CM	2 oz. bottle ♣	0.4 .....	\$6.05	\$5.72
481713CM	1 quart bottle ♣	2.2 .....	11.59	10.37

NEW

### Zero Charge™ Screen & Keyboard Cleaner

With regular use, this cleaner will eliminate static charge from sensitive surfaces and provide a long term protection. Removes hand oils, ink marks, dust, fingerprints, nicotine, syrup, carbon, and other soils from work areas.

Part No.	Description	Wt. (lbs.)	1	12
481721CM	1 pint bottle ♣	1.1 .....	\$10.59	\$10.21

### Quick Test® Detector Activation Spray


This non-flammable aerosol is safe on the ozone layer while eliminating the risk of fire. A unique vertical actuator that when depressed, sprays a cloud of simulated smoke toward the detector setting off the alarm.

Part No.	Description	Wt. (lbs.)	1	12
481730CM	2.5 oz. aerosol ♣ *	0.3 .....	\$5.59	\$5.37



### Freeze Spray

- Safe on plastics
- Nonflammable
- Wide spray for cooling entire boards
- Ozone safe

Part No.	Description	Wt. (lbs.)	1	5
525915CM	10 oz. aerosol can  *	0.8 .....	\$11.39	\$10.29

### Glass & Plastic Cleaner

- Controls static, cleans and polishes in one application
- Compatible with plastics, glass and stainless steel
- Foaming spray won't run or drip; ideal for optical surfaces

Part No.	Description	Wt. (lbs.)	1	5
525974CM	14 oz. aerosol can  *	1.1 .....	\$11.09	\$10.03

\* Shipped via UPS ground to continental U.S. only

### Chemask

- Easy to use – peel off dried Chemask® masking agent
- Latex material is compatible with flux systems and stable with cleaning solvents

Part No.	Description	Wt. (lbs.)	1	5
525835CM	8 oz. squeeze bottle  *	0.7 .....	\$13.25	\$12.71


### Chem Pads

- Ultra pure blend of 91% IPA/9% deionized water
- Mild cleaning solution, nonabrasive wipe
- Pack of 50 3" x 4" presaturated pads

Part No.	Description	Wt. (lbs.)	1	5
525843CM	3"x4" presaturated pads  *	0.7 .....	\$21.39	\$20.32

### Double Head Cottontip Swabs

- Soft & highly absorbent compatible w/ most solvents

Part No.	Description	Wt. (lbs.)	1	5
525851CM	6" cotton swab  *	0.1 .....	\$3.45	\$3.26

See Complete Chemtronics Chemicals Offering at [www.Jameco.com/Prod/Chemtronics](http://www.Jameco.com/Prod/Chemtronics)



## 3M Scotch-Weld™ Adhesive

A higher viscosity, one-part, high strength, fast-setting adhesive that cures at room temperature. Adheres to difficult-to-bond substrates such as EPDM rubber, aluminum, and flexible vinyl. ScotchWeld adhesive exhibits good resistance to soap solutions and isopropyl alcohol.



Part No.	Description	1	5	10
646477CM	ScotchWeld C-40 <b>R</b> *	\$19.95	\$19.25	\$18.49
646717CM	ScotchWeld C-40H <b>R</b> *	18.95	17.75	16.75

## 3M Scotch-Weld™ Epoxy Adhesive DP-100

A flame-retardant (self-extinguishing) off-white version of 3M™ Scotch-Weld™ DP-100 Adhesive. It meets UL94VO burn test requirements, has a 1:1 mix ratio, and has a work life of 5 - 8 minutes. It is ideal for many applications requiring a flame retardant adhesive.



Part No.	Description	1	10	25
652228CM	1.7 fl. oz. <b>R</b> *	\$18.75	\$16.63	\$14.94

## 3M Scotch-Weld™ Epoxy Adhesive DP-190

A gray, flexible, two-part adhesive that cures at room temperature and provides high strength bonds with good performance in shear and peel. Can be used to bond rubber, metal, wood, most plastics and masonry products. This adhesive has a 90 minute work life, with improved impact and shock resistance over many traditional epoxy adhesives. It is a 1:1 mix ratio of 2216 B/A gray adhesive.



Part No.	Description	1	5	10
652236CM	1.7 fl. oz. <b>R</b> *	\$17.49	\$16.25	\$15.25

## 3M Scotch-Weld™ EPX™ Plus II Applicator

The applicator is a low-cost portable, self-contained metering, mixing and dispensing machine that simultaneously meters and mixes two-part adhesives as the material is applied. The plunger is for the 3M™ Scotch-Weld™ EPX™ Plus II Applicator. The EPX Plus II Applicator is used to dispense 3M™ Scotch-Weld™ adhesives in duo-pak cartridges.



Part No.	Description	1	5	10
652201CM	Applicator <b>R</b> .....	\$64.95	\$59.95	\$54.95

## 3M Tapered Mixer Tip

Enables technicians to apply a fine bead for use in bonding impact strips and sealing small seams as well as other applications where a fine bead is required. Tip can be cut for desired bead thickness. For use with P/N 652201CM (above).



Part No.	Description	1	10	25
652210CM	Mixer tip <b>R</b> .....	\$1.55	\$1.37	\$1.23

## 3M Scotch-Grip™ Rubber and Gasket Adhesive

A yellow, premium quality, versatile, brushable, heat resistant adhesive that develops strength rapidly. Has excellent adhesion to metal, baked enamel, wood, most plastics, neoprene, reclaim, SBR and butyl rubber. NOT for EPDM rubber.



Part No.	Description	1	10	25
647058CM	5 oz. tube <b>R</b> *	\$13.65	\$12.09	\$10.86

## 3M Scotch-Grip™ Plastic Adhesive

A clear, elastomeric adhesive with exceptional adhesion to metal and plastic. This adhesive is unique in its ability to bond hard-to-hold materials like polypropylene, polyethylene, and high-impact polystyrene. Exhibits high immediate bond strength, long tack range, and contact bond properties. Good resistance to water and aging.



Part No.	Description	1	10	25
647066CM	5 oz. tube <b>R</b> *	\$13.25	\$11.75	\$10.56

## 3M Super 77 Spray Adhesive

High tack, high coverage and fast drying for permanently attaching foils, carpeting, paper, cardboard, felt and cloth to painted or unpainted metals, wood and hardboard.



Part No.	Description	1	5	10
645870CM	10 oz. aerosol can <b>R</b> * .....	\$8.95	\$8.49	\$8.09

## 3M Super Adhesive Glue

Scotch® Super Strength Adhesive is an industrial strength adhesive for most household repairs. Forms a nearly invisible bond that offers versatility and a strong grip. Resists heat, water, oil and grease. Bonds glass, metal, porcelain, plastics and many other types of materials.



Part No.	Description	1	10	25
645845CM	30ml tube <b>R</b> *	\$4.99	\$4.59	\$4.19

## 3M Super Glue Gel

3M™ Super Glue Gel quickly repairs glass, china, jewelry, balsa wood, rubber and rigid plastic. It forms a strong bond, fills small gaps better than non-gels, and the gel formula lasts longer in the tube.



Part No.	Description	1	10	25
645837CM	2 gram tube <b>R</b> *	\$1.99	\$1.89	\$1.79

## 3M Scotchkote™ Electrical Coating

Scotchkote™ Electrical Coating provides vinyl tapes with an extra oil, moisture and corrosion-resistant layer of flexible coating for problem areas. A fast drying sealant and bonding compound, in a brush top can for quick & easy application.



Part No.	Description	1	5	10
647074CM	4 fl. oz. can <b>R</b> *	\$9.75	\$8.55	\$8.10

## 3M Citrus Base Cleaner

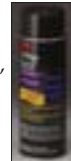
A citrus oil based cleaner which can dissolve and flush away dirt, grease, tar, most non-curing type adhesive films, and similar substances. Emulsifies when flushed with water.



Part No.	Description	1	5	10
647040CM	24 oz. can <b>R</b> *	\$19.95	\$18.49	\$17.49

## 3M 5-Way Penetrant

Effective as a demineralizer – displaces moisture and “dries out” electrical apparatus. Inhibits rust – spreads a thin, even film that actually penetrates the pores of the surface to inhibit rust and corrosion. Penetrant – frees rusted, frozen bolts, nuts, etc. Lubricant – for delicate machines or precision instruments.



Part No.	Description	1	10	25
645888CM	24 fl. oz. aerosol can <b>R</b> *	\$14.49	\$12.87	\$11.56

## 3M Respirator Mask

Recommended for sanding and working with fiberglass insulation and drywall sanding. 3M™ Cool Flow™ Exhalation Valve allows easy exhalation and heat reduction, which provides cool, dry comfort. NIOSH approval: N95.



Part No.	Description	1	10	25
645968CM	Respirator mask <b>R</b> .....	\$7.69	\$6.79	\$6.10

## 3M Home Dust Mask

Lightweight, disposable masks offer relief from irritating effects of common household dusts. Patented filter media is greater than 90% efficient for particles of all sizes. Contour-fit, soft metal nosepiece adjusts closely over the bridge of the nose.



Part No.	Description	1	10	25
645950CM	5 pack <b>R</b> .....	\$4.49	\$3.99	\$3.59

## 3M Lens Cleaning Cloth

Dirt and particles are trapped within knitted tufts of the fibers. Rows and rows of tufts and valleys trap large and small particles.

- Material: polyester/nylon
- Size: 6"W x 7"L



Part No.	Description	1	10	25
645896CM	Cleaning cloth <b>R</b> .....	\$2.69	\$2.38	\$2.14

## 3M Scotch-Brite™ #74 Medium Duty Scrub Sponge

It's a No. 96 scouring pad on one side and on the other is a cellulose sponge. • Size: 3.6"W x 6.1"L x 0.7"Th



Part No.	Description	1	10	25
652199CM	Scrub sponge <b>R</b> .....	\$2.69	\$2.41	\$2.16

## #96 General Purpose Scour Pad

Synthetic scouring pad is excellent for common cleaning jobs.

- Color: green
- Size: 6"W x 9"L



Part No.	Description	1	10	25
652181CM	Scour pad <b>R</b> .....	\$0.85	\$0.73	\$0.66

\* Shipped via UPS ground to continental U.S. only

**R** RoHS compliant product **+** This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## 3M Double-Sided Foam Tape

Used in a wide variety of applications, this tape features high-shear acrylic adhesive and high temperature resistance. Adheres securely to any surface with its double-sided adhesive. 1/8" thick open-cell urethane foam carrier. Ideal for many manufacturing applications.

- 1/8" thick • 1"W x 12'L

Part No.	Product No.	1	5	10
285907CM	3M 4008 	\$14.89	\$11.65	\$11.35



## 3M Duct Tape 3900

Polyethylene coated cloth with rubber adhesive. Economy grade duct tape. A good choice for general maintenance, wrapping, sealing and protecting.

- 48mm W x 54.8m L

Part No.	Product No.	1	10	25
652068CM	3M 06976 (silver) 	\$9.15	\$8.09	\$7.27

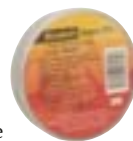


## 3M Super 33+ Electrical Tape

This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Excellent resistance to UV rays, abrasion, moisture, copper corrosion, alkalis and acids, and is flame-retardant. Excellent all-weather performance in cold to 0°F (-18°C). Designed to perform in a continuous temperature environment up to 220°F (105°C).

- UL listed and CSA certified • 3/4"W x 66'L

Part No.	Product No.	1	10	25
285464CM	3M 06132 (black) 	\$4.59	\$4.24	\$4.21

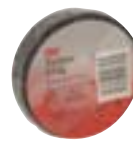


## 3M Tartan 1710 Electrical Tape

3M™ Tartan™ 1710 vinyl insulating tape offers good resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including ultraviolet).

- UL listed • 3/4"W x 60'L
- Flame retardant










Part No.	Product No.	1	10	25
285587CM	3M 49656 (black) 	\$0.95	\$0.89	\$0.86



## 3M Scotch® 35 Vinyl Electrical Tape


Identify leads, splices, and terminations. Abrasion and weather resistant 7 mil tape. Excellent mechanical and electrical insulation properties. Wraps smoothly and holds tightly over a wide range of temperatures.

- 3/4"W x 66'L

Part No.	Product No.	1	10	25
652076CM	3M 10810 (red) 	\$5.89	\$5.24	\$4.71
652084CM	3M 10869 (orange) 	\$5.89	\$5.24	\$4.71
652092CM	3M 11271 (violet) 	\$5.89	\$5.24	\$4.71
652105CM	3M 10828 (white) 	\$5.89	\$5.24	\$4.71
652113CM	3M 10885 (brown) 	\$5.89	\$5.24	\$4.71
652121CM	3M 00072 (gray) 	\$5.89	\$5.24	\$4.71
652130CM	3M 10836 (blue) 	\$5.89	\$5.24	\$4.71
652148CM	3M 10851 (green) 	\$5.89	\$5.24	\$4.71
652156CM	3M 10844 (yellow) 	\$5.89	\$5.24	\$4.71



- 5 rolls: blue, green, red, yellow & white • 1/2"W x 20'L

Part No.	Product No.	1	5	10
287806CM	3M 10457 	\$7.95	\$6.72	\$6.10

## 3M 130C Linerless Rubber Splicing Tape

This highly conformable, high voltage Ethylene Propylene rubber tape is ideal for a number of applications where its sealing properties are required. These include sealing collars, closure-sealing, drop wire splice insulating, sheath build-up and constructing auxiliary sleeves. Unlike most rubber tapes, Scotch® 130C is linerless which makes it easier and quicker to use. It provides a void-free, permanent seal every time.

- 3/4"W x 30'L

Part No.	Product No.	1	5	10
652050CM	3M 4171 	\$13.95	\$12.75	\$11.69



## 3M Scotch® General Purpose Masking Tape

A very high temperature resistant tape for use in masking and holding applications where temperatures reach 250°F (121°C) up to 1 hour. A general purpose paper masking tape designed to be used in medium temperature paint bake operations.

- 24mm W x 55m L


Part No.	Product No.	1	10	25
652172CM	3M 02982 	\$6.99	\$6.16	\$5.53



## 3M Safety Stripe Tape

3M™ Safety Stripe Tape 5702 Black/Yellow, 5.4 mil (0.14 mm) vinyl backing with rubber adhesive, resists most common solvents.

- Color: black and yellow
- Size: 2" wide x 36 yards long

Part No.	Product No.	1	24
651882CM	5702 	\$39.99	\$37.49



## 3M Vinyl Tape

The 3M™ Vinyl Tape 471 with rubber adhesive and vinyl backing provides a clean removal in any application. Conformable and dead stretch properties to provide straighter lines. Maintains color throughout even when exposed to heavy abrasion.

- Color: red • 5.2mil (0.13mm) thick
- Size: 2" wide x 36 yards long

Part No.	Product No.	1	24
645159CM	471 	\$34.99	\$31.55



Find our selection of 3M products on pages 112, 113, 158, 163, 210, 301 & 310.

## 3M Double Coated Urethane Foam Tape

1/16" thick neutral, open cell urethane foam flexible carrier with high shear, high temperature resistant acrylic adhesive. Use to fill gaps and bond irregular surfaces. Distributes stress uniformly over bonded area. Apply by hand or with dispenser.

- 1"W x 18'L


Part No.	Product No.	1	5	10
645941CM	3M 06440 	\$16.95	\$15.75	\$14.39





## 3M Hook and Loop Fastening System

Nylon hooks mesh with pliable loops. 1" wide strip with adhesive backing sticks instantly to many surfaces.

- Hook and loop: 1"W x 15'L

Part No.	Product No.	1	5	10
286897CM	3M 06481 (black) 	\$35.69	\$34.46	\$32.57
286900CM	3M 06488 (white) 	35.69	34.46	32.57

- Hook and loop: 1"W x 3'L • Two pair

Part No.	Product No.	1	10	25
645917CM	3M 64293 (black) 	\$2.79	\$2.46	\$2.21
645909CM	3M 64294 (white) 	2.79	2.46	2.21



## 3M Dual Lock Fastening System

3M™ Dual Lock™ reclosable fasteners have been used extensively in transportation, electronics, business equipment, machinery, medical, sign and display markets. When the mushroom-shaped stems interlock, tensile strength is high enough to replace mechanical fasteners, yet you can readily open and close Dual Lock fasteners hundreds of times. High temperature and solvent resistant.

- Adhesive backing for strong bonds • 1"W x 15'L
- 5x stronger than conventional hook & loop fasteners
- Audible snap assures secure closure

Part No.	Product No.	1	5	10
288438CM	3M 06463 (clear) 	\$74.95	\$71.19	\$67.65

- Hook and loop: 1"W x 3'L • Two pair

Part No.	Product No.	1	10	25
645925CM	3M 64284 (black) 	\$3.55	\$3.14	\$2.83
645933CM	3M 64254 (clear) 	3.55	3.14	2.83





## Chemicals

Air Jet® & Freeze Mist  
HCFC Contact Cleaners  
Solder Flux & Flux Removers  
Lubricants & Adhesives  
Coatings, Thinners & Solvents  
Applicators, Brushes, Swabs & Wipes

These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See Complete GC Chemicals Offering at  
[www.Jameco.com/Prod/GCChemicals](http://www.Jameco.com/Prod/GCChemicals)



## Circuit Boards



### Bare Copper Circuit Boards

One ounce copper (0.0014") on base of either fiberglass or reinforced epoxy board. 1/16" thick.



#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616471CM	22-250	3" x 5" ....	\$2.69	\$2.53	\$2.23
616489CM	22-260	4" x 6" ....	3.59	3.35	2.95
616497CM	22-261	6" x 6" .....	4.99	4.66	4.11
616500CM	22-263	6" x 9" .....	5.69	5.32	4.69
616518CM	22-264	8" x 10" ....	8.89	8.32	7.34
616534CM	22-268	11" x 14" ..	17.75	16.59	14.64

#### Double-Sided Board

616526CM	22-267	6" x 9" ....	\$6.09	\$5.72	\$5.05
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#### Assortment's Single Sided Boards

- 1 each 2" x 4.5" and 3" x 4.5"
- 2 each 2.25" x 3"



Part No.	Product No.	1	10	50
616551CM	22-272	\$5.49	\$5.13	\$4.51

### Positive Pre-Sensitized Circuit Boards

1 oz. copper (0.0014") on 1/16" epoxy glass board, UL94V-0 rated. High quality positive pre-sensitized board is double protected from light and handling damage. The peel-off coating protects the board while handling or cutting prior to exposure.



#### Single-Sided Boards

Part No.	Product No.	Size	1	10	50
616201CM	21-243	3" x 6" ....	\$4.45	\$4.18	\$3.69
616219CM	21-247	7" x 10" ..	11.75	10.95	9.67
616227CM	21-252	12" x 12" ..	27.15	25.75	24.47
616235CM	21-330	2" x 4" .....	4.29	4.07	3.87
616243CM	21-332	3" x 4" .....	5.29	5.00	4.75
616251CM	21-334	4" x 6" .....	5.35	4.99	4.40
616260CM	21-336	6" x 6" .....	5.99	5.58	4.92
616278CM	21-338	6" x 9" .....	8.99	8.39	7.40

#### Double-Sided Boards

616286CM	21-339	3" x 4" ....	\$4.25	\$3.99	\$3.52
616294CM	21-350	6" x 6" .....	8.15	7.59	6.70
616307CM	21-353	6" x 9" ....	11.55	10.80	9.53
616315CM	21-357	12" x 12" ..	29.35	27.85	26.46

### Circuit Board Drafting Patterns

An 8.5" x 11" sheet containing 2 dozen of the most commonly used pre-spaced component configurations. Self-adhesive pads may easily be removed from master sheet with a precision knife (recommend P/N 72768CM, pg 299).



Part No.	Product No.	1	10	50
616323CM	21-377	\$4.69	\$4.35	\$3.84



## Prototyping Boards



### Export Design Phenolic Prototype Board

Accommodates all types of IC's, transistor packages and passive parts. Lands and bus bars are tin plated.



- 0.1" centers
- Size: 3 1/8"W x 5 1/16"L x 1/16" thick

Part No.	Product No.	1	10	50
616631CM	22-504	\$4.05	\$3.80	\$3.35

### Experimenter's Phenolic Prototype Boards

Save time and money with ready-to-use printed circuit boards. Excellent for use in prototype building, experimenting, hobby or science projects and kit building. 0.03" punched holes on 0.150" centers.



#### 616649CM:

- Copper plated with 94 five-point terminals and two 40-point bus strips
- Size: 6.0"L x 2.0"W x 1/16" thick

#### 616665CM/616673CM:

- Size: 6 3/4"L x 3 3/8"W x 1/16" thick

Part No.	Product No.	Description	1	10	50
616649CM	22-508	Copper plated	\$9.25	\$8.65	\$7.63
616665CM	22-510	Quad land patt.	5.29	4.96	4.37
616673CM	22-512	Sngl. land patt.	5.29	4.96	4.37

### Versa Strip Phenolic Prototype Board

- Alpha-numeric indexing
- Silver-plated land patterns
- Predetermined short tracks for multi-IC work
- 0.035" diameter holes
- 0.1" centers
- Size: 3.5"W x 6"L x 1/16" thick



Part No.	Product No.	1	10	50
616622CM	22-502	\$6.19	\$5.77	\$5.09

### Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.



#### 616681CM:

- 0.042" dia. holes, 0.1" spacing

#### 616690CM:

- Size: 6.0"L x 4.5"W x 1/16" T

#### 616702CM:

- 0.093" dia. holes, 0.265" spacing

Part No.	Product No.	1	10	50
616681CM	22-514	\$4.59	\$4.32	\$3.81
616690CM	22-516	5.29	4.96	4.37
616702CM	22-518	5.85	5.56	5.28

### Copper Circuit Tape

Six foot roll of 1/8" wide self-adhesive copper tape for quick repairs and modifications. Adheres easily to PC boards and similar surfaces, solder-ready. Flexible enough to be used around corners, between PC board and chassis, etc. Low resistance, 0.002" thick.



Part No.	Product No.	1	10	50
616657CM	22-509	\$3.79	\$3.55	\$3.14

## DATA Direct Etch PCB "Starter" Set

Includes: 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIP, patterns, lines and 1/32" & 1/16" etch resist tape.



Part No.	Product No.	Wt. (lbs.)	1	10
70412CM	ER1*	0.7	\$11.95	\$10.95

## DATA Pre-Sensitized Circuit Boards & Developer

- Pre-coated circuit board
- Size: 3.0"L x 4.0"W x 1/16" T

Includes: Instructions

156751CM



Part No.	Description	Wt. (lbs.)	1	10	25
156751CM	Single sided	—	\$4.95	\$4.49	\$3.95
156742CM	Double sided	—	6.49	5.85	5.25
156734CM	4 oz. Pos. developer*	0.6	6.95	5.95	4.95

## DATA Dry Concentrated Etchant

- Makes one pint of etch solution



Part No.	Product No.	1	10	25
70201CM	ER3*	\$3.95	\$3.49	\$3.15

## DATA Photo Etch™ Printed Circuit Kit

Generate your own 1:1 artwork. Then use the patented Fast Neg film process to make a photo negative and sensitize and expose a blank copper board. Finish by developing & etching. No camera or darkroom is required.



Part No.	Product No.	Wt. (lbs.)	1	10
16731CM	12-750*	4.6	\$39.95	\$36.95

## Acid Brush

- Used for application of reactive solvents



Part No.	Description	1	10	100	1000
153322CM	Metal handle, 6" R	\$6.5	\$5.9	\$4.7	\$3.5

\* Shipped via UPS ground to continental U.S. only



## We're Listening to What You Need

Our goal is to provide you with more of what you want. Let us know how we can better serve your electronics needs. Please send your requests to [NewProducts@Jameco.com](mailto:NewProducts@Jameco.com).

♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

♣ RoHS compliant product ♣ This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.

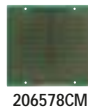




## General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

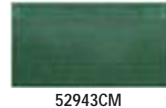
- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided



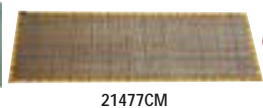
206578CM



21434CM



52943CM



21477CM



### Circuit Patterns



**A**  
Holes Only



**B**  
Pad Per Hole



**C**  
Power/Ground Perimeter Bus with Pad Per Hole



**D**  
3 Hole Solder Pad and Bus

See PCB enclosures on pg 314, mounting hardware (recomm P/N 106551CM) below

Part No.	Cross Ref. Number	Size (W" x L")	Fits Enclosure(s) (see page 313)	Circuit Pattern	Hole Pads	# Holes x Dia. ↑	Power/Ground Buses	Connector I/O or Edge	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing			
											1	10	50	100
105099CM	2855PCB	1.60 x 2.70	18921CM	B	Single-sided	288 x .035"	None	None	2 x .115"	.02	\$5.25	\$4.73	\$4.25	\$3.83
105101CM	5002PCB	1.50 x 3.50	11957CM	C	Single-sided	365 x .038"	4	None	2 x .140"	.02	6.95	6.26	5.00	3.75
263185CM	PCB-403	1.80 x 3.10	18921CM	B	Plated through	300 x .042"	None	None	4 x .115"	.03	6.95	6.25	5.63	5.09
105128CM	2853PCB	2.00 x 4.40	18913CM, 11965CM	C	Single-sided	669 x .038"	4	None	4 x .140"	.03	7.95	6.95	6.25	5.59
105110CM	2300PCB	2.40 x 3.40	11869CM	C	Single-sided	637 x .038"	4	None	2 x .140"	.03	7.95	6.95	6.25	5.59
263206CM	PCB-463	2.40 x 4.10	N/A	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
263214CM	PCB-858	2.50 x 4.50	18913CM	B	Plated through	640 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105152CM	2851PCB	3.10 x 5.50	18892CM	C	Single-sided	1450 x .035"	7	None	4 x .140"	.07	9.95	8.95	7.95	5.96
263222CM	PCB-69	3.30 x 3.70	N/A	B	Single-sided	900 x .042"	None	None	4 x .120"	.05	8.95	8.09	7.25	6.55
105136CM	2320PCB	3.30 x 4.50	11885CM	C	Single-sided	1266 x .035"	4	None	4 x .140"	.06	9.95	8.95	7.95	6.95
105161CM	2852PCB	3.60 x 7.00	18905CM, 11973CM	B	Single-sided	2225 x .035"	4	None	4 x .140"	.10	14.95	13.45	11.95	10.95
206586CM	2746APCB	4.30 x 6.80	209349CM	C	Single-sided	2550 x .042"	5	None	4 x .140"	.07	10.95	9.86	8.87	7.98
21434CM	JE401(8001)	4.50 x 6.50	18868CM	B/D	Single-sided	2360 x .042"	2	None	None	.12	18.65	16.70	15.05	13.55
21451CM	JE405(8003)	4.50 x 6.50	18868CM	C	Single-sided	2360 x .042"	1	None	None	.12	19.95	17.95	16.15	13.45
206578CM	2743APCB	4.60 x 4.30	208910CM	C	Single-sided	1684 x .042"	5	None	4 x .140"	.07	7.49	6.74	6.07	5.46
105179CM	2505PCB	5.00 x 6.50	11893CM, 18868CM	C	Single-sided	2829 x .035"	7	None	8 x .120"	.13	14.95	13.49	11.95	8.96
21477CM	JE407(8006)	5.00 x 13.25	N/A	B	Plated through	6063 x .038"	None	None	8 x .120"	.28	41.19	37.07	29.66	22.24
206594CM	2747APCB	5.50 x 8.00	209357CM	C	Single-sided	3906 x .042"	5	None	4 x .140"	1.0	14.99	13.49	10.79	8.09
105187CM	2507PCB	6.10 x 8.80	18876CM	C	Single-sided	4771 x .035"	7	None	8 x .140"	.21	29.95	26.96	21.56	16.17
263231CM	PCB-7038	8.30 x 11.9	N/A	B	Plated through	8819 x .042"	10	5	4 x .115"	.40	55.95	52.19	49.59	47.09
263249CM	PCB-6088	9.20 x 13.0	N/A	B	Plated through	11,000 x .042"	10	None	13 x .115"	.50	55.95	52.19	49.59	47.09

### Other Manufacturers — Great Deals

28177CM	PCB1	2.42 x 4.10	18913CM	C	Plated through	674 x .040"	None	None	4 x .120"	.04	\$5.95	\$5.35	\$4.79	\$4.29
28193CM	PCB3	5.00 x 8.00	18876CM	C	Plated through	3705 x .042"	4	Mounting area-I/O	4 x .120"	.17	21.95	19.76	17.78	16.22

### Vector Products

43140CM	64P4400XP	4.50 x 6.50*	18868CM	A	Drilled only	2860 x .042"	None	None	None	.09	\$6.09	\$6.06	\$6.03	\$6.01
52943CM	84P44WE	4.50 x 5.00	18876CM	A	Drilled only	3740 x .042"	None	None	None	.15	9.55	9.49	9.45	9.42
37604CM	169P44WE	4.50 x 17.0	N/A	A	Drilled only	7524 x .042"	None	None	None	.31	18.45	17.55	16.75	15.95
37612CM	169P4400P	4.50 x 17.0*	N/A	A	Drilled only	7524 x .042"	None	None	None	.25	11.25	11.19	11.14	11.08
37621CM	169P84WE	8.50 x 17.0	N/A	A	Drilled only	14,448 x .042"	None	None	None	.53	22.89	22.79	22.69	22.54
106551CM	20 pieces PCB board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards										1.79	1.65	1.45	1.35

\* PCB material: phenolic

↑ All 0.042" diameter hole boards use terminals T44, T49, and T421 (see below)

Ⓢ Blue Part No. = Limited Quantity Available



## Wire Wrap and Push-In Terminals

### For .042" Diameter Holes

- Material: copper alloy
- Prebagged 100 pcs.

#### 34147CM: Push-In Micro-Klip Terminals

- Overall length: .36" • Post size: .032" x .045"

#### 34155CM: Miniwrap Wiring Terminals • Shoulder: .045"

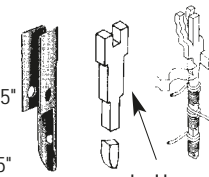
- Two-prong with square tail for wire wrapping

- Overall length: .69" • Post size: .025" Sq.

#### 34163CM: Klipwrap Wiring Terminals • Shoulder: .045"

- Three-prong with square tail for wire wrapping

- Overall length: .83" • Post size: .025" Sq.



34147CM 34155CM 34163CM

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	100 pc. units	
				1	10
34147CM	T421	.200	.097	\$7.29	\$6.95
34155CM	T44	.065	.530	8.45	6.97
34163CM	T49	.200	.530	11.89	11.19



## Copper-Plated Blank Circuit Boards

Ideal for hobbyists & students doing prototypes of circuits. Single and double-sided boards are copper plated.

- 1.6mm thickness



Fig. 1



Fig. 2



Fig. 3

Single-Sided						
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10
169279CM	PCBS3X6	3.0 x 6.0	3	0.1	\$3.49	\$3.15
169287CM	PCBS6X6	6.0 x 6.0	2	0.2	4.95	4.49
169295CM	PCBS12X12	12.0 x 12.0	1	0.5	13.49	12.14
Double-Sided						
Part No.	Cross Ref. No.	Size (L" x W")	Fig.	Wt. (lbs.)	1	10
169308CM	PCBD3X6	3.0 x 6.0	3	0.1	\$5.25	\$4.73
169316CM	PCBD6X6	6.0 x 6.0	2	0.2	7.95	7.15
169324CM	PCBD12X12	12.0 x 12.0	1	0.7	17.95	15.95

## PT Series Prototyping Boards

Accommodates any mixture of 0.3" to 0.6" wide IC's with any number of pins, and any combination of resistors, capacitors, diodes, transistors, etc.

- 4 power buses that connect to a power jack (recommended P/Ns 101178CM, 101186CM & 265421CM, pg 163)

Part No.	Cross Ref. No.	Size	Hole Pads	# Holes x Dia.	# Mntg Holes x Dia.	1	5	10
645677CM	PT-35X25	3.5"L x 2.5"W	Double-sided	456 x .036"	4 x .140"	\$17.75	\$16.85	\$16.45
262511CM	PT-5X37	5"L x 3.7"W	Double-sided	1135 x .036"	4 x .140"	24.75	22.95	21.79
262537CM	PT-6X49	6"L x 4.9"W	Double-sided	1931 x .036"	4 x .140"	32.49	30.89	29.35



262511CM



262537CM



645677CM

RoHS compliant product

This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version.

[Details on page 1.](#)



## JAMECO ValuePro

The prototype builder boards on pg 313 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware listed on pg 313 (P/N 106551CM).

**Board description:** Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid. Blue Part No. = Limited Quantity Available

## Enclosures

See pages 208 - 210 for hardware and knobs



18921CM

18913CM

18892CM

11885CM

208910CM

105110CM\*

105161CM\*

105099CM

105128CM

105152CM\*

105136CM

105136CM\*

105099CM

105152CM\*

\*All boards sold individually see pg 313 ; multiple boards shown

## ABS Plastic Enclosures

Lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid.

All sizes below are for interior dimensions.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18921CM	H2855	3.1" x 2.0" x 0.9"	0.1	\$3.15	\$2.84	\$2.55	\$2.30
18913CM	H2853	4.9" x 2.5" x 1.5"	0.2	3.69	3.32	2.99	2.69
18892CM	H2851	6.0" x 3.5" x 1.9"	0.4	4.79	4.31	3.88	3.49
18905CM	H2852	7.5" x 4.3" x 2.3"	0.5	6.89	6.20	5.58	5.02

## Die-Cast Aluminum Enclosures

Ideal for RF circuits. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11957CM	B5002	3.9" x 2.0" x 1.0"	0.2	\$5.95	\$5.39	\$4.85	\$4.35
11965CM	B5004	4.7" x 2.4" x 1.6"	0.4	8.49	7.64	6.88	6.19
11973CM	B5006	7.5" x 4.3" x 2.4"	1.2	13.95	12.56	11.30	10.17

## Aluminum Enclosures

Quantity SAVE

Put them in an economical aluminum enclosure. The enclosure comes in two pieces which slide together.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
11869CM	B2300	4.0" x 2.0" x 2.8"	0.2	\$5.45	\$4.90	\$3.92	\$2.94
11885CM	B2320	5.0" x 4.0" x 3.0"	0.4	7.89	7.10	5.68	4.26
11893CM	B2335	7.0" x 6.2" x 4.6"	0.8	10.95	9.86	7.88	5.91

## Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

Quantity SAVE

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
208901CM	B2741A	4.0" x 3.3" x 2.2"	0.4	\$6.49	\$5.89	\$5.29	\$3.96
208910CM	B2743A	5.9" x 5.3" x 3.0"	0.8	7.99	7.19	6.49	4.86
208928CM	B2744A	7.3" x 6.3" x 2.8"	1.1	8.99	8.09	7.28	5.46
209349CM	B2746A	6.3" x 7.8" x 2.5"	0.9	12.35	11.12	10.00	7.50
209357CM	B2747A	7.5" x 9.8" x 3.2"	1.4	14.99	13.49	12.14	10.93

## ABS Heavy-Duty Instrument Cases

P/N 18876CM includes ventilation and speaker sound slots.

• Color: gray

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
18868CM	H2505	7.9" x 6.3" x 2.5"	0.8	\$7.89	\$7.10	\$6.39	\$5.75
18876CM	H2507	10.0" x 7.5" x 3.1"	1.4	8.99	7.99	7.28	6.55

## ABS Enclosures w/ Clear Tops

Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment & drilled holes for mounting.

Part No.	Cross Ref. No.	Size (L x W x D)	Wt. (lbs.)	1	10	50	100
141831CM	203C1	4.6" x 3.2" x 1.8"	0.3	\$8.95	\$8.09	\$7.25	\$6.55
141840CM	203D1	6.3" x 3.2" x 1.8"	0.4	9.95	8.99	8.09	7.25
141858CM	203F1	7.0" x 5.5" x 2.5"	0.8	11.95	10.79	9.69	8.69

## JAMECO ValuePro

## Component Cabinet



- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 14.7"W x 7.4"H
- Weight: 2.8 lbs.

319601CM: 5.5"L x 2.7"W x 1.5"H

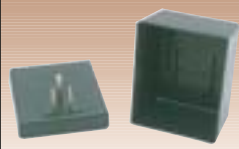
319610CM: 2.5"W x 1.2"H

**Includes:** 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

\* Prepackaged: order in increments of 10 or 50

Part No.	Description	1	10	50
319599CM	Component cabinet	\$15.95	\$13.95	\$12.49
319601CM	Drawer for cabinet	.39	.35	.294
319610CM	Divider for cabinet	...	.19	.17

For Wall Transformer Enclosures see page 244.



## JAMECO ValuePro

## Plastic Flip Top Boxes

- Clear plastic box with a clear plastic lid and removable dividers
- 100255CM: Size: 8.4"L x 4.5"W x 1.4"H
- 18 compartments (1.4" x 1.5" each)
- 148902CM: Size: 10.2"L x 4.7"W x 1.6"H
- 12 compartments (1.7" x 2.3" each)

Part No.	Description	1	10	100
100255CM	18 compartments	\$2.25	\$1.91	\$1.43
148902CM	12 compartments	3.95	3.49	2.95

## JAMECO ValuePro

## Plastic Flip Top Case for SMDs

- 128 compartments • Color: gray
- 8 rows x 16 columns grid
- Flip top openings on each bin
- Padded cover locks bins closed
- Perfect match to store P/N 156881CM SMD resistor assortment, pg 79
- Weight: 1.4 lbs. • Size: 11.0"L x 8.3"W x 1.7" Thick

**Includes:** Labels for each bin

Part No.	Description	1	10
164267CM	SMD flip top case	\$49.95	\$44.99

## JAMECO ValuePro

## Stackable Drawers

- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white

Part No.	Description	1	10	100
11906CM	Case/drawers	\$1.85	\$1.68	\$1.53

## Bug Boxes

- Anti-static plastic
- Fits in bug cage (P/N 11332CM, below)
- Box size: 4.9"L x 3.3"W x 0.6"H
- 11341CM: stores sixty 8-pin or thirty 16-pin DIPs
- 11375CM: Designed to store all types of components

Part No.	Description	1	10	100
11341CM	30 compartments	\$3.95	\$3.49	\$3.15
11375CM	3 compartment/6 vertical & 6 horizontal dividers	3.95	3.56	3.20

## Bug Tray

- Fits in bug cage (P/N 11332CM, below)
- 10 compartments
- 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H

Part No.	Description	1	10	100
11800CM	Divided bug tray	\$3.19	\$2.87	\$2.58

## Bug Cage

- Holds bug boxes or trays
- Modular and interlocking
- Color: blue • Wt.: 0.7 lbs.
- Case size: 5.0"L x 3.9"W x 5.1"H

Part No.	Description	1	10	100
11332CM	Bug cage	\$7.49	\$6.74	\$6.07

## BELLIN DYNAMIC SYSTEMS, INC.

### Surface Mount Proto Boards

Prototyping SMT circuit boards has been tedious and time-consuming because surface mount devices are so small. Now there is an easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- Quality silk-screened and solder-masked boards
- V-groove scoring between elements for smooth straight edges
- Compatible w/ .100" single or dual row male headers (see pg 142)
- Size: 7.6"L x 5.0"W
- Board thickness: 0.031"
- See our website ([www.Jameco.com](http://www.Jameco.com)) for additional specifications



215491CM

Application example using 215503CM



Portion of 227299CM

#### Small SMT

Part No.	Prod. No.	Board Description	1	10
215491CM	B502	160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more	\$45.95	\$41.35
227344CM	B513	300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+	45.95	41.35

#### SOIC

215520CM	B505	60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more	\$45.95	\$41.95
227310CM	B510	140 SMT pattern, SOIC 8 to DIP .300" width	45.95	41.35
227328CM	B511	63 SMT pattern, SOIC n/w/wd 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227352CM	B514	72 SMT pattern, SOIC narrow 8, 14, 16, 18, 20 to DIP .300"	45.95	41.35
227361CM	B515	30 SMT pattern, SOIC 24, 28, 32 to DIP .600" width	45.95	41.35

#### Fine Pitch Dual Row

215503CM	B503	34 SMT pattern, SOIC/QSOP/TSOP/MSOP/TSSOP & more	\$45.95	\$41.35
227281CM	B507	40 SMT pattern, SSOP/TSSOP 16, 20, 32, 40 & more	45.95	41.35
323889CM	B516	54 SMT pattern, 0.65mm TSSOP 14/16/20/28 to DIP 0.300/0.600	62.49	56.25
323900CM	B517	18 SMT pattern, 0.65/0.5/0.4mm TSSOP-48 to DIP 0.600	\$62.49	45.95
681141CM	B536	4 SMT pattern, 0.5mm TSSOP 14/16/20/28	45.95	41.45

#### Quad

215511CM	B504	25 SMT pattern, QFP32, 44, 48, 52, 54, 64, 70, 80, 100 PLCC18, 20, 28, 32, 44	\$45.95	\$41.35
323918CM	B518	2 SMT 0.65mm or 0.8mm pitch, universal QFT adaptor for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
323926CM	B519	2 SMT 0.4mm or 0.5mm pitch, universal QFT adaptor for QFP32/40/48/56/64 (by 8-pin increments to 256 pins)	59.95	53.95
336479CM	B530	8 SMT, 0.65/0.80mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
336487CM	B531	8 SMT, 0.65/0.80mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	32.75
336495CM	B532	8 SMT, 0.40/0.50mm QFP/MLF 8 - 80 pins (even # of pins/side)	43.65	41.45
336508CM	B533	8 SMT, 0.40/0.50mm QFP/MLF 4 - 76 pins (odd # of pins/side)	43.65	32.75
681150CM	B535	8 SMT, 0.40/0.50/0.65/0.80mm QFP/TQFP/QFN/MLF/MLP 48/12/16/24/28/32 pins	45.95	41.45

#### PCB Connector (0.062" thick through-hole)

227272CM	B506	45 SMT pattern, USB A, B/1394/RJ11, 12, 45/DB9 PCB conn.	\$45.95	\$41.35
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#### PitchStick™

227299CM	B508	20 SMT pattern, 48 inline pads, metric/rare pitches	\$45.95	\$41.35
227301CM	B509	20 SMT pattern, 48 inline pads, 50 & 25 mil pitches	45.95	34.49
681133CM	B534	2 SMT pattern, 48 inline pads, 19.69/25.59 mil pitches	45.95	41.45

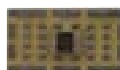
#### Kits

Part No.	Prod. No.	Description	Price
681168CM	KIT-100	1 each of B500, B502, B503, B504, B505, B507	\$169.95
681176CM	KIT-101	1 each of B500, B504, B513, B514, B516, B517	169.95
681184CM	KIT-202	1 each of B504, B508, B510, B513, B514, B516, B517, B535, B536, B537 & 2 of B500	349.95
681205CM	KIT-302	1 each of B504, B505, B507, B508, B510, B513, B514, B515, B516, B517, B518, B519, B535, B536, B537 & 3 of B500	529.95



Mini Breadboards for Surface Mount Devices.

### Surfboards®



207360CM



207394CM



207589CM

Part No.	Product No.		1	10
207360CM	9081 (For 8-pin SOIC) ⊕		\$1.35	\$1.22
207378CM	9082 (For 8-pin SOIC) ⊕		3.55	3.10
207386CM	9161 (For 14/16-pin SOIC; 0.1" pin spacing: 0.65"H) ⊕		1.75	1.50
207394CM	9163 (For 14/16-pin SOIC; 0.1" pin spacing: 0.65"H) ⊕		5.45	4.79

#### Application Specific Adapters

Part No.	Product No.	Accepted Devices	Pins	1	10
207589CM	33205	SOT-23-5/SC59-5	5	\$1.35	\$1.18
207597CM	33206	SOT-23-6/SOT-23-L/SC-59-6/TSOP-6 ⊕	6	1.95	1.69

microEngineering Labs

### LAB-X1 Experimenter's Module Board

It provides an assembled testbed containing most of the circuitry commonly used with PICmicro microcontrollers (MCUs). Many different projects may be created using the LAB-X1, including calculator, voltmeter, LCD backpack, tone dialer, and RC servo controller.



- 40-pin ZIF socket for PICmicro MCU (not included, recommend PIC16F877-20/P, P/N 176882CM pg 5)
- Reset button • 16 switch keypad • 3 potentiometers • LED bargraph
- 2 lines x 20 characters LCD module • Speaker • 2 RC servo connectors
- RS232 interface • Size: 5.5" x 5.6" • One-year warranty
- Socket for I2C & SPI serial EEPROM, RS485 interface, Microwire serial EEPROM and real time clock/serial analog to digital converter (devices not included)
- EPIC in-circuit programming connector • Prototyping area for additional circuit

Requires: AC adapter (below) ⊕ Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
169113CM	LAB-X1 Experimenter Board	\$199.95	\$189.95
176903CM	LAB-X1 Experimenter Board Kit (unassembled) ⊕	139.95	132.95
176882CM	PIC16F877-20/P microcontroller (pg 5) ⊕	9.29	8.05
127976CM	AC adapter (details on page 241)	5.25	4.59

microEngineering Labs

### EPIC Plus PICmicro Programmer

The EPIC Plus Programmer quickly and easily programs the PIC12Cxxx, 12CExxx, 16C505, 16C55x, 6xx, 7xx, 84, 9xx, 16CE62x, 16F62X, 7x, 8x, 87x, 14C000, 17C7xx, 18Cxxx microcontrollers from Microchip. The basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. Devices available separately on page 5.



- Simple installation with parallel port (printer) interface
- Command line operation for automated, non-interactive programming
- PICmicro Assembler software included

Requires: Two 9V batteries or AC adapter (below)

Part No.	Description	1	10
132679CM	EPIC Plus PICmicro programmer	\$59.95	\$53.95
136397CM	8/18/20-pin ZIF adapter	34.95	31.95
132610CM	40/28-pin ZIF adapter	34.95	31.95
162317CM	AC wall adapter (16VDC/500mA, details on page 242)	8.75	7.65
67256CM	6' DB25 cable (details on page 107) ⊕	6.45	5.79

### PLCC Prototype Adapters

- PCB construction
- Tin-plated PLCC connector • Gold-plated round pins
- PLCC socket slotted for PLCC chip remover
- PLCC socket identifies pin 1 and orientation key
- Silkscreen numbers identify pin numbers in groups of 5 and 10



73550CM

Part No.	Pins	Size (L x W)	1	10	100
73541CM	44 ⊕	2.3" x 1.6"	\$11.95	\$10.79	\$9.69
73550CM	68 ⊕	3.4" x 1.6"	14.35	12.25	10.15
73568CM	84 ⊕	4.3" x 1.9"	23.95	21.59	19.45

### PCI-Bus Extender Card

- PCI bus • Gold-plated fingers for long life
- Extends life of motherboard connectors • Size: 5.9"L x 5.4"W

Part No.	Description	1	10
141381CM	PCI-bus extender card ⊕	\$74.95	\$67.49







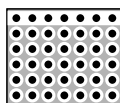
## ISA Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precise standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

• Edge contacts: gold



Circuit Pattern



Power/Ground Perimeter  
Bus with Pad Per Hole



21531CM



28206CM

Part No.	Cross Ref. No.	Description	Size (Inches) W x L	Terminals (pg 313)			I/O Connector (not included)	Hole Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Wt. (lbs.)	Pricing		
				T44	T49	T421							1	10	25
21531CM	JE417	PC/XT 8-bit	4.2 x 6.50	yes	yes	yes	D-sub 9, 15, 25 & 37	Plated through	2126 x .042"	2	8 x .120"	.12	\$19.95	\$16.99	\$14.65
28206CM	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9, 15 & 25	Plated through	4890 x .042"	2	4 x .120"	.23	26.95	24.25	21.85

microEngineering Labs

## "PICProto" Prototyping Boards

- High quality blank prototyping boards for PICmicro microcontrollers
- Holds microcontroller, 5V regulator, oscillator, capacitors and DB9-25 connector
- Double-sided board with plated-through holes
- Solder mask on both sides makes soldering easy
- Large prototyping area
- Silkscreen legend

**Includes:** Documentation sheet with schematic, suggested parts and placement



132636CM

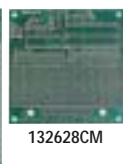


136400CM

132644CM



176891CM



132628CM



132652CM

**PICProto 18, 18L:** For all 18-pin PICs including PIC16C52, 54, 56, 58, 55A, 55B, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84

Part No.	Description	Size (L" x W")	1	10
132644CM	PICProto 18	3.0 x 1.5	\$9.95	\$8.95
176891CM	PICProto 18L	3.6 x 4.1	19.95	17.95

**PICProto 3:** For the 28-pin PIC16C62, 63, 642, 66, 72, 76, 773, 16F73, 76, 870, 872, 873, 876, 18C242, and 252

132636CM	PICProto 3	3.0 x 3.0	\$14.95	\$13.49
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**PICProto 64:** For the 40-pin PIC16C64, 65, 662, 67, 74, 77, 774, 16F74, 77, 871, 874, 18C422, and 452

132652CM	PICProto 64	4.0 x 3.0	\$16.95	\$14.95
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**PICProto 8:** For all 8-pin PIC12Cxxx and 12CExxx

136400CM	PICProto 8	2.0 x 1.2	\$9.95	\$9.45
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**PICProto Dual:** For 18-pin PIC16C52, 54, 56, 58, 55A, 55B, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, & 84, as well as 28-pin PIC16C55, & 57. Accepts standard 0.6" 28-pin device or 0.3" skinny DIP

132628CM	PICProto Dual 18/28	3.0 x 3.0	<b>SALE</b> <del>\$12.95</del> \$10.95	\$9.96
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## USB Interface Universal Programmer

- 12,000+ device types supported
- Programs EPROM, EEPROM, Serial PROM, Flash, PLD/CPLD/FPGA, and MPU/MCU
- High speed USB port is provided to connect to the majority of notebook or desktop PCs running Windows® 95/98/2000/XP
- On-board 40-pin socket for programming 8-pin to 40-pin IC's
- Utilizes flexible pin drivers to get accurate waveforms
- High programming speed plus over-current protection, reverse insertion detection, self diagnostics, etc.
- Single chip controller, "Yes" key for hit operation, Good and Busy LED indicators
- Load file, read master, program, verify, auto, ID check, check sum, blank check, erase, secure, protect/unprotect, edit, function configuration, and self-test functions
- Power requirements: 100 - 240VAC@ 50-60Hz • Size: 9.8"W x 8.7"L x 2.0"H

**Includes:** USB cable (USB A - USB B), power cord, users manual & CD-ROM software

**System Requirements:** Intel Pentium® or compatible processor w/ 32MB of RAM, USB port, 20MB disk space, Windows® 98/ME/2000/XP/2003, CD-ROM drive

Part No.	Product No.	1	5
667403CM	ALL-11A	\$899.95	\$854.95



HI-LO SYSTEMS

microEngineering Labs

## PICBasic and PICBasic Pro Compiler

- Compatible with most PICmicro MCU programmers including EPIC plus
- Use in DOS or Windows (includes Windows editor/DE software)
- I2C instructions to access external serial EEPROMs
- In-line assembler and call support

### 132661CM: PICBasic Compiler

- Expanded BASIC Stamp I compatible instruction set
- Serial speeds to 9600 baud
- May use up to 2k of code space
- Supports PC12C67x, PIC14Cxxx, PIC16C55x, 66x, 7xx, 84, 92x, and PIC16CF8xx microcontrollers
- PEEK and POKE instructions to access any register from BASIC



132661CM

### 150543CM: PICBasic Pro Compiler

- Direct and library routine access to any pin or register
- Automation page boundary handling past 2k
- Real If...Then...Else...Endif
- Interrupts in BASIC and assembler
- Built-in LCD support
- Supports 12C5xx, 12C67x, 12CE67x, 14C000, 16C5x, 16C55x, 6xx, 7xx, 84, 92x, 16CE62x, 16F62x, 7x, 8x, 87x, 17Cxxx, and 18Cxxx microcontrollers
- Bit, byte, word arrays
- Hierarchical expression handling
- BASIC Stamp I and II library
- MPLAB/MPASM/ICE compatibility

Part No.	Description	1	10
132661CM	PICBasic compiler	\$99.95	\$89.95
150543CM	PICBasic Pro compiler	249.95	224.95

## Universal Programmer – Pocket Size & Battery Powered

### Parallel Port Interface

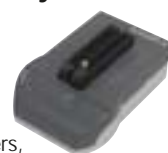
A unique ASIC pin driver, designed specifically for this latest generation programmer, enabling the first true universal input/output capability.

- Supports over 6400 devices: 8-bit and 16-bit EPROM, EEPROM, Flash EPROM, Serial EEPROMs, all Microcontrollers, GAL/PAL/CE without adapters
- Support for ultra-low voltage devices down to 1.3V
- High speed data transfer: 27C256 read/verify = 2 seconds; program = 8 seconds
- Three separately adjustable voltages for all 40-pins
- Fully compatible with Windows® 95/98/ME/NT/2000/XP
- Integrated editor's many features allow user to edit device data, which can be loaded or saved in Intel HEX, Motorola S or binary format
- Operates on AC power adapter or 6 NiMH batteries
- Size: 4.5"L x 3.1"W x 1.3"H • Weight: 0.5 lbs.

**Includes:** Printer port data cable, power adapter and CD-ROM

**System requirements:** PC with Pentium® CPU

Part No.	Description	1	5
226309CM	GALEP-4	\$369.95	\$351.49



GALEP-4

## Flash Writer/Programmer with USB Interface

- Supports Flash EPROM, EPROM & EEPROM
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions
- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP
- High speed: Only 22 seconds to blank check, program, and verify MXIC MX29F040
- File formats supported: binary and machine code, Intel HEX, Motorola HEX, Tektronix

**Includes:** USB cable, 12V @ 500mA adapter, CD-ROM software and manual





## XELTEK 40-Pin Low-Cost Universal Programmer

- Supports 3400+ devices, including most E(E)PROM, Series E(E)PROM & Flash
- Programs GALs, PEELs, PALCE, Microcontrollers, PIC16Cxx/17Cxx, COP87xx, and PSD3XX
- Tests TTL/CMOS Test, Memory Test, Vector Test, Test Pattern Edit, Auto Identify TTL/CMOS Device
- Features a universal ZIF socket that accepts up to 40 pins
- High-speed programming, cost-effective hardware and flexible software
- Load and save file in binary, Intel (extended) Hex, Motorola S or Tektronix (extended) Hex format. Multiple load, format conversion, relocation etc.
- HEX-ASCII Edit, Fuse Map Edit, Checksum, Swap, Vector Table edit
- Supports Windows® 9x/NT/2000/XP • Printer Port Interface
- Size: 7.8"L x 5.5"W x 0.8"H • Weight: 4.0 lbs.

**Includes:** Power adapter, parallel cable, user's guide and CD-ROM software

Part No.	Description	1	5
231183CM	SuperPro-Z universal programmer .....	\$244.95	\$232.69



## Ultra-Fast 48-Pin USB/Stand-Alone Universal Programmer & Adapters

- Fastest low-cost programmer in the market; programs high-density Flash memory at near theoretical minimum programming time: (Intel 28F320W18 – 1.8 volts 32Mbit at 18 sec.; 13 sec. for programming & 5 sec. for verifying)
- Currently 21,600+ devices supported from 140+ manufacturers including memory, MCU, and PLD
- Supports: EPROM, Paged EPROM, Parallel/Serial EPROM, FPGA Configuration Serial PROM, Flash Memory (NOR and NAND), BPROM, NOVDRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic
- Reliable programming of low voltage devices down to 1.5 volts
- Over-current/over-voltage protection for safety of the chip & programmer hardware
- Microsoft® Windows® 9x/NT/2000/XP compatible
- Size: 9.4"L x 5.9"W x 2.0"H • Weight: 5.0 lbs.

**Includes:** 12VDC @ 2.5A AC adapter, Program CD, USB Cable, user's guide

Part No.	Description	1	5
231221CM	SuperPro-3000U USB universal programmer .....	\$989.95	\$940.45



231255CM



231263CM



231271CM

Part No.	Product No.	Description	1	5
231255CM	A015A	32-pin PLCC adapter .....	\$94.95	\$90.25
231263CM	A244A	44-pin PLCC adapter .....	109.95	104.45
231271CM	A247A	48-pin TSOP adapter .....	174.95	166.25

☐ Blue Part No. = Limited Quantity Available

## High-Speed Universal Device Programmer/Tester

### Parallel Port Interface

- Programs Flash memory, PROM, EPROM/EEPROM, Serial (E)EPROM, Bipolar PROM, PAL, PALCE, GAL, NVRAM, PEEL, EPLD, SPLD, CPLD, PIC & Microcontrollers
- 8000+ device types supported
- Hardware diagnostic program examines all 48-pin drivers
- On-board FPGA for speed: 4X faster than offshore brands
- Tests TTL, CMOS, DRAM and Static RAM ICs
- Current limiting protects hardware circuits from improperly inserted or defective chips
- Supports POF and JEDEC formats
- High-speed device function tests and user creatable test library
- Read, blank check, program, verify, checksum, data compare, security, auto (erase, blank check, program, verify), and option bit program function
- Built-in editor for both buffer date and test vectors • CE/CUL/CSA quality certified

**Includes:** Parallel cable, installation diskette, power cord and manual

**System Requirements:** IBM PC, XT, AT, 386, 486, Pentium®, hard drive, 512K RAM, Windows® 95/98/2000/NT, and parallel port

Part No.	Description	Socket	1	5
207765CM	TOPMAX	48-pin universal ZIF .....	\$875.95	\$681.86



## Fast, Low-Cost Universal Device Programmer

### Parallel Port Interface

- 5000+ device types supported
- Menu driven software
- Programs (E)EPROM, PROM, Serial PROM, PALCE, GAL, Flash memory, microcontrollers, ATF
- On-board FPGA for speed: 4X faster than offshore brands
- Auto search device select function supports (E)EPROM and microcontrollers
- Device insertion test identifies improperly inserted device before programming
- Auto programming for production programming
- Read, blank check, program, verify, checksum, data compare, security, auto function

**Includes:** Parallel cable, wall adapter, diskette & manual

**System Requirements:** IBM PC, XT, AT, 386, 486, Pentium® or compatibles, DOS 2.11 or greater, Windows® 95/98/2000/NT/XP; hard disk, 512k RAM & parallel port

Part No.	Description	Socket	1	5
207731CM	CHIPMAX	40-pin ZIF .....	\$349.95	\$332.95



## Versatile, Production Quality Universal Programmer

### Parallel Port Interface

- 5000+ device types supported
- Supports EPROM, Flash, microcontroller, Serial (E)EPROM, EPLD, PALCE, GAL, PEEL
- Auto search device select function
- Fast programming speed with IC vendor approved algorithms
- Built-in editor for both buffer date and test vectors
- Supports JEDEC, Intel Hex, Motorola S Records, Binary and ASCII file formats with File LOAD/SAVE command
- Built-in macro commands for programming

**Includes:** 01/02/03 personality modules, parallel cable, wall adapter, disk & manual

**System requirements:** IBM PC, XT, AT, 386, 486, Pentium®, hard disk, 512k RAM, standard parallel port, MS-DOS 2.11 or higher

Part No.	Description	Sockets	1	5
207773CM	MEGAMAX programmer	48-pin ZIF .....	\$379.95	\$349.95



## Universal EPROM/Flash Programmer w/ USB Interface

- Supports low voltage components up to 2.5V; user selectable verify Vcc with one or two-pass verify voltage
- High speed: 30 sec. to process 16Mbits memory
- Auto detect device pin insertion and contact check
- Select device brand & number by prompt and convenient cross search, Flash memory auto detection
- Supports EPROMs, EEPROMs, Flash EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSPs and PLDs
- Supports file formats JEDEC, binary, Intel 80/86 HEX, Motorola HEX, Tektronic HEX

**Includes:** USB cable, 12V@1.5A power adapter and CD-ROM software

**System requirements:** Pentium® II or higher, 32MB RAM minimum, 30MB hard disk space, Windows® 98/ME/2000 operating system

Part No.	Description	1	5
225939CM	Leaper 48 .....	\$554.95	\$531.19



## 512k E(E)PROM/Flash Programmer w/ USB Interface

Compact, portable, and lightweight stand-alone E(E)PROM Flash programmer. Also interfaces with your PC through the USB port.

- Programs EPROMs, EEPROMs, Flash EPROMs & more
- 2 sockets for master/slave operation
- Stand-alone mode uses two 9V batteries
- IC parameters are adjustable such as programming algorithm, Vpp voltage, and pulse width
- Supports file formats binary and machine code, Intel HEX, Motorola HEX
- Supports Windows® 95/98/NT/2000/ME/XP • Size: 6.3"L x 4.3"W x 1.8"H

**Includes:** USB cable, 12VDC @ 500mA power adapter and CD-ROM

Part No.	Description	1	5
220636CM	Leaper-3C .....	\$275.95	\$260.00



## HI-LO SYSTEMS

### EPROM Eraser

- Erases all UV erasable EPROMs (32-pin)
- Upper & lower erasing chambers hold a total of 16 EPROMs
- One-year warranty
- Conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.



**Includes:** AC adapter – 9VDC @ 600mA and a timer which turns eraser off at the end of the selected time period – 10 to 60 minutes

Part No.	Description	1	5
121267CM	EPROM eraser	\$159.95	\$143.95

## UVP

### EPROM Eraser and Accessories

- Erases 1 chip in 15 min. or 8 chips in 21 min.
- Conductive foam liner eliminates static build-up
- Maintains constant exposure distance of 1"
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm<sup>2</sup>



- Weight: 2.3 lbs.
- Size: 9.0"L x 3.7"W x 2.6"H

Part No.	Description	1	5
15712CM	8-chip eraser	\$106.85	\$101.49
34382CM	Lamp for 15712CM	39.95	29.95
13864CM	Foam (12" x 24" x 0.25")	9.29	8.35

## Breadboarding with SMD

While surface mount products might make it seem more difficult to prototype today, don't despair. Solderless breadboards can be used with SMD ICs!

Consider picking up a few breadboard adapters like the ones on page 315. Simply solder your surface mount device and header pins to the adapter and you're ready to plug the unit into a solderless breadboard.

No more fumbling with tiny parts. No more testing for poor connections. And most importantly, no more choosing a less effective product because it is available in a DIP package!

Start creating your SMD prototyping library—they'll be ready for your next great idea and all the rest to follow.

**Practical Practices**  
Money Saving Tips for the Engineer



## JAMECO

ValuePro

### Solderless Breadboards

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco's AC/DC breadboard power supply, P/N 77681CM (pg 319).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry • 0.1" hole spacing
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- One-year warranty \* WBU5 and JE series do not interconnect



20757CM



20773CM



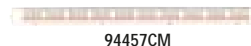
20790CM



20811CM



20600CM



94457CM



20669CM



20722CM



136901CM



421315CM

**Attention Educators! Buy jumper wire (pg 319) in bulk and SAVE!** (see Hook-up Wire on page 103)

#### WBU5 Series Key Features:

- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins to be inserted across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent parts tightly together

#### JE Series Key Features:

- Use to breadboard and debug circuit designs
- Low static, plastic body – CMOS safe
- Nickel-plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (P/N 19289CM & 20079CM, pg 319)
- Some models feature heavy-duty aluminum backings (JE24, JE27, WBU504)

Part No.	Product No.	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L" x W"	Baseplate Size L" x W"	Weight (lbs.)	Pricing			
									1	10	50	100
94457CM	JE19	0	1	100	0	6.5 x 0.4	—	0.04	\$2.65	\$2.39	\$2.15	\$1.95
20600CM	JE21	1	2	400	0	3.3 x 2.1	—	0.13	5.25	4.73	4.25	3.83
20669CM	JE22	1	0	630	0	6.5 x 1.4	—	0.20	6.35	5.69	5.19	4.55
194298CM	JE37	1	2	840	0	6.9 x 2.4	—	0.25	9.95	8.96	7.16	5.37
20722CM	JE23	1	2	830	0	6.5 x 4.0	6.5 x 2.1	0.30	9.39	8.45	7.61	6.85
194271CM	JE34	2	3	1,560	3	6.5 x 4.0	8.5 x 4.7	0.73	15.95	14.36	11.48	11.04
20757CM	JE24	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	13.65	12.28	11.06	9.95
136901CM	WBU504	2	3	1,855	4	5.5 x 5.5	7.4 x 6.3	0.90	19.55	17.85	16.15	14.45
20773CM	JE25	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	19.95	17.95	16.16	14.54
20790CM	JE26	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	27.29	24.56	22.10	19.89
20811CM	JE27	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	33.59	30.23	27.21	24.49

### Great Savings on Breadboard Test Leads

Part No.	Description	1	10	25
421315CM	Breadboard pin to breadboard pin test leads (20 pk), 4 each color-coded (red, yellow, blue, black, white), 20 AWG wire, 7"L (15cm)	\$12.95	\$11.69	\$10.49

RoHS compliant product This product is available in both RoHS and non-RoHS versions. Add an "R" before part number for RoHS version. Details on page 1.



## Wire Jumper Kit (350 pcs.)

- 25 each 0.1" to 5.0" lengths (14 sizes)
- 350 assorted lengths in 13 colors
- Pre-stripped/preformed 22 AWG solid wire jumpers



19289CM

**19289CM: 350-piece wire jumper kit**

- Handy, durable, clear plastic case

**20079CM: 350-piece refill for 19289CM**

- Case not included

Part No.	Description	1	10	50	100
19289CM	Wire jumper kit	\$15.95	\$14.39	\$12.95	\$11.65
20079CM	Refill for 19289CM	10.99	9.89	8.90	8.01

## Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: 2 each yellow, white, red, black & blue



126341CM

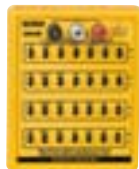
Part No.	Cross Ref. No.	Length (mm/inch)	1	10	100
126359CM	JW50	50/1.97	\$3.95	\$3.49	\$2.95
126341CM	JW100	100/3.94	4.95	4.49	4.05
126324CM	JW200	200/7.87	5.19	4.69	4.25



## Resistance & Capacitance Decade Substitution Boxes

Wide-range decade substitution boxes for product design or calibration checks.

- Light durable construction
- Case may be grounded separately
- Three binding posts permit isolated substitutions
- Size: 4.7"W x 5.7"H x 1.4"D
- Weight: 0.7 lbs.



211668CM

**211668CM:**

- 1% resistance substitution from 1Ω to 11.11110MΩ
- 7 decade ranges of resistance
- Values can be changed in 1Ω increments



211676CM

**211676CM:**

- 5 decade ranges of capacitance
- 5% capacitance substitution from 100pF to 11,111μF

Part No.	Description	1	10
211668CM	Resistance	\$98.95	\$93.95
211676CM	Capacitance	128.95	122.45

## Fabricating Printed Circuit Boards

**Newnes Publishing** Designing and fabricating a single-printed circuit board for a design prototype or producing boards for a limited number of devices can be a major headache for electronics engineers and hobbyists. In this hands-on guide, the author describes the complete process of taking a schematic diagram and using it to produce a printed circuit board. (236 pages, 2002)



Part No.	Description	Price
667391CM	Printed Circuit Boards Book	\$27.49

## Digital/Analog Design Labs

- Two 7-segment displays (digit height: 0.3")
- One-year warranty

### Solderless Breadboard

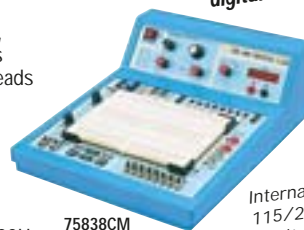
- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- DC supplies equipped with short circuit protection
- Variable DC power: 0 to +15V & 0 to -15V @ 0.5A

### Function Generator (5 ranges)

- Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz
- Sine wave output: 0-8 Vp-p variable • Triangle wave output: 6Vp-p fixed • Square wave output: ±5V fixed



75838CM

Our most popular digital lab!

International 115/220VAC Switchable



201890CM

Part No.	Tie Points	Fixed Power Supply	Pulse Generator	Frequency Counter	Multimeter	Includes
75838CM	1580	+5VDC @ 1.0A	No	No	DCV (Digital)	Power cord, manual
201890CM	2960	+5VDC @ 0.5A	1Hz to 1MHz switchable	Yes	ACV, DCV, DCmA, resistance (analog)	Power cord, enclosed case, test lead, jumper wire kit, DB25 serial adapter, manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
75838CM	Digital lab	10.6 x 13.3 x 5.0	8.1	\$276.95	\$249.95	\$226.95
201890CM	Digital/analog lab	13.9 x 12.8 x 4.9 (back panel)	11.8	429.95	365.46	305.56

## Digital/Analog Design Lab

### Solderless Breadboard

- 2712 interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

### DC Power Supplies

- Variable DC output: 0 to +15V & 0 to -15V @ 500mA
- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Input power: 120/220VAC @ 50-60Hz (switchable)

### Function Generator • Frequency ranges: 1Hz-10Hz, 10Hz-100Hz, 100Hz-1kHz, 1kHz-10kHz, 10kHz-100kHz

- Sine wave output: 0-8 Vpp variable • Triangle wave output: 0-6 Vpp variable • Square wave output: 0-8 Vpp variable

### Other features:

- 2 variable resistors: VR1=1kΩ, VR2=100kΩ
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")
- 8 data switches
- 2.5" dia. 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks
- One-year warranty

**Includes:** Power cord and manual

Part No.	Description	Size (W" x D" x H")	Wt. (lbs.)	1	10	25
136266CM	Digital/analog lab	12.8 x 9.8 x 3.7	8.5	\$379.95	\$341.99	\$307.79
319214CM	Replacement breadboard	6.7 x 6.5 x 0.4	0.5	24.45	22.28	21.16

## Powered Project Board

- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A; variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Back panel has ground terminal
- Outputs are short-circuit protected
- Edge plate for non-DIP size components
- Input power: 120/220VAC @ 50-60Hz (switchable)
- Replacement fuse: P/N 103907CM, pg 93
- Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Enclosure size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs. • One-year warranty



International 120/220VAC Switchable

**Includes:** Power cord

Part No.	Description	1	10	25
136258CM	Powered breadboard	\$99.95	\$89.95	\$87.95

## AC/DC Power Supply

Ideal for Breadboards on previous page



International 120/220VAC Switchable

### Output Specifications:

- +5VDC @ 1A;
- -5V @ 300mA fixed;
- 0 to +15VDC @ 500mA variable;
- 0 to -15VDC @ 300mA variable;
- 12-0-6-6-12 tapped VAC, 300mA fixed

With built-in short-proof regulated power supplies.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77841CM, pg 292
- Size: 7.4"W x 5.5"D x 2.6"H • Color: beige
- Weight: 5.5 lbs. • One-year warranty

Part No.	Description	1	10	25
77681CM	Power supply	\$119.95	\$109.95	\$99.95

www.Jameco.com

Our enhanced website offers over 200,000 product cross references. Find products quickly and order easily.



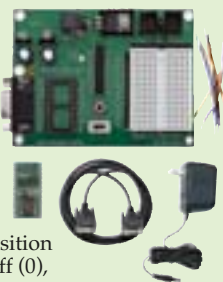
## Robotic Controller Kits

### Board of Education Full Kit

The new Board of Education Revision C carrier board has two major changes from the Revision B. The jumper near the servo connector will select either Vdd (5 V) or Vin (unregulated input voltage) to power the servos. The three-position power switch is either off (0), power to everything but servo connectors (1) or power to everything (2).

- Mechanically interlocked power supply to prevent dual connection of wall pack and 9V battery
- DB9 connector for programming and serial I/O
- Female 10-pin dual row connector for optional AppMods • P0 – P15 I/O pins

**Includes:** Board of Education carrier board, BASIC Stamp 2 module, pluggable wires, serial cable, CD-ROM and power supply



Part No.	Product No.	1	10
283101CM	28102	\$118.95	\$96.99

### Boe-Bot Full Kits

Now with Robotics text v2.0!

The new text includes 41 activities for the Boe-Bot and PBASIC 2.5 source code support. The Boe-Bot's flexibility stems from the fact that it's a rolling Board of Education. The Board of Education and Basic Stamp may be removed to be used as your platform for the other Stamps in Class curriculum. The robot may be programmed to follow a line, solve a maze, follow light, or communicate with another robot. Requires 4AA batteries (not included).



Part No.	Product No.	1	10
282933CM	28132 (serial)	\$198.99	\$189.00
387997CM	28832 (USB)	198.99	189.00

### Microcontroller Application Cookbook Vol. 1 & 2

**Vol. 1** is a wide-ranging collection of 113 interface circuits designed around the BASIC Stamp 2. For somebody getting started with microcontrollers. Discusses timing diagrams, interfacing, A/D conversion and how to control a high-voltage circuit with a solid-state relay. **Vol. 2** is a new collection of 154 interface circuits designed around the BASIC Stamp 2.

☉ Blue Part No. = Limited Quantity Available

Part No.	Product No.	1	10
282925CM	28113 ☉	\$59.95	\$59.55



## Advanced Toddler Robot Kit

Walking robots have mechanical and software interdependencies that require in-depth examples and explanation. The Advanced Robotics text is an introduction to the Toddler robot's basic movements. Students using the Toddler robot will learn advanced embedded

programming with BASIC, efficient code development, sensor feedback, and general control. Because of the number of possible movements, we consider the Toddler to be appropriate for those aged 14 and above. • Height: 10" • Weight: 4.0 lbs.

**Includes:** 155-page Advanced Robotics text in the Stamps in Class style and the 351-page BASIC Stamp Manual ☉ Blue Part No. = Limited Quantity Available



Part No.	Product No.	1	10
282837CM	2731 ☉	\$248.95	\$236.49

## BS2 Educational Starter Kit

This complete "Getting Started" kit is enhanced to include the *What's a Microcontroller?* (WAM) curriculum. Includes all of the BASIC Stamp hardware required to complete the activities and challenges. With this latest edition of the kit, you will receive the *What's a Microcontroller?* parts and text making this combination a bona fide "Getting Started" kit.

With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamps.

**Includes:** BASIC Stamp 2 module, Board of Education Programming Board, BASIC Stamp Manual, CD-ROM, jumper wires and a serial cable

Part No.	Product No.	1	10
282829CM	27207	\$158.95	\$152.95



## Basic Analog and Digital Parts & Text V1.2

Covers the essentials of 8-bit A/D & D/A conversion using a BASIC Stamp. Introduces PBASIC commands for A/D conversion with

resistor/capacitor circuits, interfacing an ADC0831 8-bit A/D converter, scaling analog outputs into meaningful digital values, analyzing time-varying signals and using PWM as analog output.

Part No.	Product No.	1	10
282950CM	28155	\$43.95	\$40.29



## Stamp Works Kit Plus

This all-in-one kit takes you beyond theory, into a well-written collection of 35 experiments that will teach you first class BASIC stamp programming. You'll learn to get the most out of the BASIC Stamp and to increase its versatility by connecting to popular active and passive components.

• Weight: 10 lbs.

**Includes:** Stamp Works experiments and Basic Stamp Source Code book, Basic Stamp Syntax and Reference Manual, professional development board (28138), 2 x 16 parallel LCD with custom cable, BS2 module, 3 rolls of 100' 22AWG wire, photoresistor, resistor and capacitor assortment, NE555CN timer, (2) 74HC165N parallel-in/serial-out 8-bit shift register, LM358N low-power dual op amp, DS1620 digital thermometer and thermostat, (2) 74HC595CN shift register, 24LC32A 32k I2C serial EEPROM, MC14489 lamp display driver, serial cable, USB cable, stepper motor, servo motor, CD-ROM software and documentation, and 12VDC @ 1A power supply.

Part No.	Product No.	Price
661116CM	27297 kit	\$248.95



## BS2P Professional Starter Kit

Provides the engineer with all the parts required to get started with the BS2P microcontroller. The kit includes a selection of components and ready-to-run source code that will help master some of the exciting new features of the BS2P.

**Includes:** Manual, BS2P demo board, BS2P-24 microcontroller, DB9 (serial) programming cable, PCF8583 chip, 32.678kHz crystal, 24LC32 serial EEPROM, DS1822 thermometer, (3) 4.7K resistors, jumper wires

Part No.	Product No.	1	10
203232CM	27235 kit	\$194.95	\$175.49
282984CM	45187 BS2P40 demo board	88.95	84.95



## Jameco's Got the Docs

We offer free technical documents for most of the products we carry. Find them easily on the product specification pages at [www.Jameco.com](http://www.Jameco.com)

Interested in more kits? Visit Jameco's RobotStore at [www.RobotStore.com](http://www.RobotStore.com)

## Servo Controller

Controls up to 16 servos and may be networked together to control 32 servos using a single I/O line.

- 2400 to 384k baud serial port
- 63 ramp rates
- 16-bit PWM timers
- RS-232 serial protocol



Part No.	Product No.	Description	1	10
282896CM	28023	Servo controller	\$38.95	\$36.95

## High-Efficiency Robotic Servo

Excellent power-to-weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Speed: 16 seconds to 60°
- Torque: 49 oz.-in. @ 4.8V
- Can be operated by P/N 151001CM, pg 166
- 0.8"W x 1.4"D x 1.6"H



Part No.	Description	1	10
157067CM	Robotic servo	\$19.95	\$17.95

## Giant Robotic Ball-Bearing Servo

Extremely powerful! Perfect for large robotic projects where power is a must.

**Lower \$\$\$**

- Torque: 161 oz.-in.
- Power supply: 4.8-6 volts
- Speed: 19 seconds to 60°
- Can be operated by P/N 151001CM, pg 166



Part No.	Description	1	10
166351CM	Giant robotic servo	\$44.95	\$42.69

## Flex Sensor

- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering



Part No.	Description	Nominal Resistance	1	10
150551CM	Flex sensor	10Ω	\$12.95	\$11.65

## MONDO•TRONICS

### Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Length: 1 meter

*How it works...* Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.



Includes: Crimps and instructions

Part No.	Description	Wire Dia. (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
								1	10
141321CM	100LT	100	150	180	28	150	33	\$17.95	\$15.95
141874CM	150LT	150	50	400	62	330	20	16.95	15.29
160055CM	375LT	375	8	2750	393	2000	4	22.95	19.95

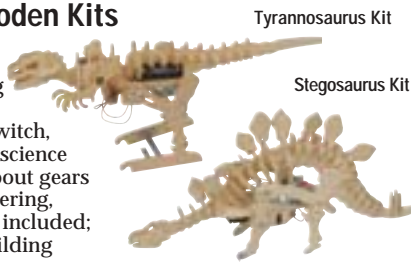
\* Multiply by 0.0098 to get force in Newtons \*\* Cycles per minute, in still air, at 20° Centigrade

## Motorized Wooden Kits

*Kits, ideal for your child.*

Your child will love building these kits and watching them walk. These kits come with "kid friendly" pre-punched wooden parts, gearbox, gears, shafts, switch, motor, and battery holder. A marvelous educational science project for ages 8 and up, and a great way to learn about gears and transmissions. These kits require no glue or soldering, just a few simple hand tools, and 2 AA batteries (not included; see pages 251-253 for batteries). Your kids will be building these kits in no time.

- Gear driven transmission
- Requires: knife, screw driver, and long-nose pliers



Part No.	Description	Price
242915CM	Stegosaurus kit	\$11.95
242923CM	Tyrannosaurus kit	11.95

## OctoBot Survivor Robot Kit

Explore the challenge of "Always On Robotics" with the OctoBot Survivor Robot! When its batteries get low, OctoBot doesn't just sit there—it gets active and looks for electric food! It tracks in on its electronic charging station until it makes contact and then "feeds" until fully recharged. It will amaze you! Between charges the OctoBot exhibits a range of active and interesting behaviors, and it has a wide range of expansion possibilities for your add-ons and experiments!



Includes: Six AA NiMH cells and AC adapter (110V AC input, 12-15V AC output)

Part No.	Description	Price
357991CM	OctoBot survivor robot kit	\$199.95

**NEW**

Over 2,000 Additional Products Available at  
[www.RobotStore.com](http://www.RobotStore.com)  
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## Crossbow Accelerometer Evaluation Boards

### Dual Axis

Evaluation board for the ADXL202, dual axis, 2g accelerometer.

177308CM: features RS-232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.



Part No.	Product No.	Description	1	10
177287CM	ADXL202EB	Dual axis	\$59.95	\$53.95
177308CM	ADXL202EB-232	w/ RS-232	164.65	150.29

## Crossbow Accelerometer

### Triple Axis Accelerometer

- Dynamic range and excellent frequency response
- Current: 24mA
- Shielded cable: 2-foot pigtail
- Acceleration range: ±4g
- Size: 1.9"L x 1.0"W x 0.8"H



Requires: 5VDC power supply, not included (recommend P/N 164101CM, pg 240)

Part No.	Description	1	10
141575CM	CXL04LP3	\$339.95	\$319.95
141583CM	Digital interface card	324.39	293.95

## Mobile Robotic Car Design Book

**McGraw Hill** This book describes in complete detail how to build a robotic car. It provides detailed photographs, schematics, list of vendors for parts, and provides software code for the processor and the digital signal processor with an explanation of what the code does and why. Printed circuit board files are free and can be downloaded from [www.books.mcgrawhill.com/authors/Kachroo](http://www.books.mcgrawhill.com/authors/Kachroo) Mellodge. (278 pages, 2005)



Blue Part No. = Limited Quantity Available

Part No.	Description	Price
313592CM	Mobile Robotic Car Design	\$23.95

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 with suggestions for products you'd like to see in future catalogs.



## 26-Pitch Press-Fit Gears and Gear Set

- Works with DC motors with 0.156" and 0.078" shaft diameter
- Heavy-duty plastic construction
- Diametral pitch: 26
- Material: polyethylene resin

**131801CM:** 20-piece gear set includes two each of 10, 20, 30, 40 and 50 teeth gears and ten bushings

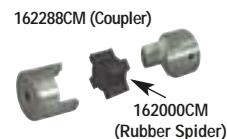
\* Prepackaged: please order in increments of 10 or 100

Part No.	Description	Bore Size	Dia.	Works w/ Shaft Dia.	Outer Gear Dia.	1	10	100
162069CM	10 teeth gear	0.149"	0.378"	0.156 (5/32)"	0.455"	.89	.69	.55
162077CM	20 teeth gear	0.149"	0.756"	0.156 (5/32)"	0.842"	.89	.69	.49
162085CM	30 teeth gear	0.149"	1.142"	0.156 (5/32)"	1.225"	.89	.69	.49
162392CM	Bushing	0.075"	—	0.078 (5/64)"	—	.28	.25	.22
Part No.	Description					1	10	50
131801CM	Gear set – 20 pieces of all the gears and bushings shown above					\$7.99	\$7.29	\$6.49



## Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



Part No.	Description	1	10	50
162288CM	.125" (3.18 mm) ID hub	\$1.35	\$1.15	\$0.86
161998CM	.197" (5.00 mm) ID hub	1.09	.89	.59
162270CM	.250" (6.35 mm) ID hub	1.35	1.19	1.09
162000CM	Rubber spider	1.29	1.15	1.05

## Climax Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD



Part No.	Description	1	10	100
138288CM	.250" ID sleeve coupler	\$4.49	\$4.05	\$3.65

## Gears and Shafts Kit

Bag of 10 gears, shafts and accessories. Great for science projects. All parts fit 2mm shaft motors.

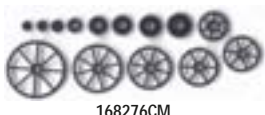
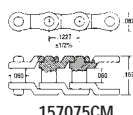
**SALE**



Part No.	Description	1	10
215298CM	Gears and shafts kit	\$5.59	\$4.99

## 16-Pitch Sprocket Set and Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



**168276CM:** 14-piece sprocket set includes 1 each of the following: 8, 9, 10 teeth with 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth with 1/4" bore size

Part No.	Description	1	10	25
157075CM	Drive chain (12" long)	\$9.95	\$8.95	\$7.95
168276CM	Sprocket set – 14 pieces (see description above)	29.49	26.49	23.89

## Hub and 48-Pitch Gear Set

- Low coefficient of friction requires little or no lubrication
- Residual stress removed by annealing process

**168284CM:** 12-piece gear set includes 1 each of the following: 10 teeth with 1/8" bore size; 14 and 16 teeth with 1/4" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth with 1/2" bore size

Part No.	Description	1	10	25
157104CM	1/4" bore aluminum mounting hub with set screws	\$5.19	\$4.69	\$4.15
168284CM	Gear set – 12 pieces (see description above)	39.95	34.95	31.95



## "D" Type Bore Pinion Gears

- Black Nylon
- "D" type bore

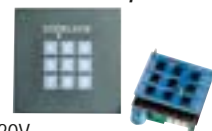
Part No.	Description	Pitch	Bore Dia.	Dia.	1	10	100
662581CM	30 tooth gear	18	0.232"	0.610"	.89	.69	.49
662590CM	32 tooth gear	9	0.315"	1.325"	1.09	.89	.69



## Electronic Lock

Velleman Code Lock Kit 67-piece kit

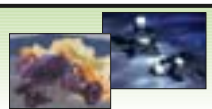
- Switch an alarm on and off or open door locks
- 3000+ codes possible
- LED indicates state
- Pulse or switch outputs
- Relay contact rating: 5A/220V
- Dimensions: 1.7"L x 1.8"W • Weight: 0.5 lbs.



Requires: 8-12VAC power supply (P/N 100061CM, pg 243)

Part No.	Product No.	1	10
127554CM	K6400	\$25.95	\$24.65

For more kits visit  
[www.Jameco.com](http://www.Jameco.com)



## Educational Kits

### Fuel Cell Car Kit 39-piece kit

Build a car with this kit that runs on water and watch as it turns water into hydrogen and oxygen, forming a gas to power your fuel cell car. Includes manual, explains how to build a solar powered car, the effects of direct and indirect radiation, the characteristics of a solar module, how to construct and load a reversible fuel cell, and the decomposition of water in the fuel cell.

Part No.	Description	1	10
307723CM	Fuel cell car and experiment kit	\$139.95	\$125.95



### Detector Radio Kit 29-piece kit

Build this radio kit without power from batteries or a wall outlet. Illustrates the basic principles behind radio broadcasting. Learn about HF coils, capacitors, resistors, diodes and the necessary components of a radio, plus the role each one plays.

**Includes:** 32-page color manual with 20 experiments

Part No.	Description	1	10
307707CM	Detector radio kit	\$15.99	\$14.55



### Power House Kit 59-piece kit

Now you can build, heat and illuminate an energy-efficient house. Get to know and use the power of the sun, wind and new technologies. Conduct 70 experiments and build more than 20 devices with this Power House Kit.

**Includes:** 100-page full color manual

Part No.	Description	1	10
307731CM	Power house kit	\$139.95	\$125.95



### Build Your Own Telegraph Kit 12-piece kit

Wind coils (with the included arbor, to ensure success), tinker with electromagnetism and magnetic fields, build a buzzer and replay, dabble in Morse Code and learn about the scientific methods used by great inventors. Superb documentation leads builders through the entire educational experience step-by-step. Multi-packs of this kit are available for classroom use, complete with valuable teachers guide. Call today for details and special pricing!

Part No.	Description	1	10
285624CM	Telegraph kit	\$47.75	\$45.46





## CEBEK 1 Second to 3 Minute Timer Module

By operating a button, the relay will be activated for the selected time.

- Output contact rating: 5A @ 200VAC

Requires: Power supply 12V @ 50mA (recommend P/N 100095CM, pg 241)



Part No.	Description	Dimensions	1	10
147871CM	I-1 timer	3.0"L x 1.7"W x 1.2"H	\$19.95	\$17.95

## 3 Second On to 1 Minute Off Cyclic Timer Module

By triggering the timer, the contacts will be engaged. Once this time has expired, the relay will remain in the off state for 3-60 seconds. It then restarts, repeating the on and off process until power is disconnected.

- Output by relay • Contact rating: 5A @ 200VAC

Requires: Power supply 12V @ 50mA (P/N 100095CM, pg 241)



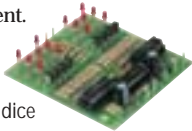
Part No.	Description	Dimensions	1	10
147846CM	I-10 timer	3.0"L x 1.7"W x 1.2"H	\$22.49	\$20.29

## velleman Dual Electronic Dice Kit 85-piece kit

Board games provide an excellent source of entertainment. Play with these electronic dice. Great for education of probability theory. Displays are switched off automatically after 30 seconds to save battery power.

- Two fully independent dice, you can play with one or two dice

Requires: 9V battery (recommend P/N 198791CM, pg 251)



Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200352CM	K3400	3.0"L x 2.8"W	0.5	\$18.95	\$16.95

# Test & Measurement Kits

## Function Generator Kit 21-piece kit

Sine, Triangle and Square Wave

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular, and square waveforms at frequencies continuously variable from 1Hz to 100kHz.

- 21-piece kit (chip, components, PC board, hardware)

Requires: 12VDC supply or ±6VDC split supply (recommend P/N 20626CM, pg 327)



Part No.	Cross Ref. No.	Dimensions	1	10
20685CM	JE2206	4.1"L x 1.5"W	\$24.95	\$22.95

## velleman Metal Detector 22-piece kit

- Proximity range adjustable to 8cm • Size: 2.1"L x 2.1"W
- LED indicator: can use with a buzzer

Requires: 9V battery (recommend P/N 151095CM, pg 251)



Part No.	Product No.	Description	Quantity SAVE	1	10
129091CM	K7102	Metal detector		\$11.95	\$8.96

## velleman Water Leak Alarm Kit 7-piece kit

Alarms you about water overflows and leaks!

- Water sensor can be placed at a distance by cutting the board and using wires for connection
- Incorporates loud alarm buzzer

Requires: 9VDC battery (P/N 151095CM, pg 251)



Part No.	Product No.	Dimensions	1	10
157315CM	MK108	2.8"L x 1.8"W	\$7.89	\$7.19

## Gas Sensor/Spirits Tester Kit 15-piece kit

This sensitive instrument indicates the presence of environmental gases such as alcohol, benzene, propane and carbon monoxide. With this board, you can build a tester with adjustable sensitivity, LED indicator, and a relay trigger for an alarm.

- Operating voltage: 12V @ 150mA • Relay: 1 x ON, 3A



Part No.	Product No.	Dimensions	1	10
313736CM	B051	2.2"L x 1.8"W	\$29.95	\$28.45

## velleman Multifunction Clock Kit 335-piece kit

A multifunctional clock with six 1.42" high digits that indicate time, date and temperature, selectable via a toggle switch. Includes a countdown function to a specific date with the last day displayed in HH:MM:SS. Also functions as a chronometer with lap function (1 second resolution), a scoreboard (two players or teams, counts up to 199), a random number generator from 00 to 99, 2-digit dice, counter and chime. US and European display option for time, date, and temperature formats. All functions and settings are wireless remote controlled (wired remote is possible).



- Fixed 433.92MHz transmitter frequency
- Temp. range: -20°C to +70°C (10 resolution): 0°F to +1500°F (20 resolution)
- Memory back-up option: 9V battery or rechargeable battery
- Relay output: 1A/24V max • Power supply: 12VDC @ 300mA
- PCB size: 10"L x 32"W • Key chain remote control included

Part No.	Description	1	10
319281CM	Multifunction clock kit	\$99.95	\$94.50
319290CM	Case for multifunction clock kit	SALE 19.95	18.97

## velleman Jumbo Single-Digit Clock 37-piece kit

- Time displayed as sequence of digits
- Bright 57mm (2.25") jumbo single-digit red 7-segment display
- Single button operation • 12 hour system
- "Blank Display" function • Accuracy: 30ppm
- Power supply: 9 - 12VDC @ 150mA (max.)



Part No.	Product No.	Dimensions	1	10
645044CM	K3400	2.9"L x 2.3"W x 1.3"D	\$26.55	\$25.25

## Clean Air Measuring Device Kit 8-piece kit

Measures the relative air quality by detecting contaminants such as cigarette smoke, solvent vapors, exhaust gas, kitchen vapors, factory exhaust gas etc. are indicated by means of a measuring device. The device only indicates that the air quality has changed, it is not able to analyze the kind of air contamination (no chemical classification).

- Operating voltage: 12V
- Current consumption: 200mA



Part No.	Product No.	Dimensions	1	10
313832CM	B299	2.5"L x 1.5"W	\$29.95	\$21.80

## LED VU Meter Kit 36-piece kit

Built around the U1096BIC, this LED-based analog-style meter puts a bright, readable VU measurement right where you need it. With an operating voltage of 8 to 16 volts and input current of 20mA, this meter is perfect for a wide range of audio applications. It's even adaptable for non-VU applications, like voltage or current measurement. Switch it on, and you'll immediately see the possibilities in this bright-green, illuminated, adjustable display device!



Part No.	Description	1	10
313904CM	LED VU meter kit	\$24.95	\$23.70

## Logic Probe Kit 13-piece kit

This logic probe tests digital circuits at various points, and shows whether that point is high, low, or constantly changing. This will help you understand and troubleshoot logic gates, timers, clocks, counters, pre-scalers, and other digital circuits.



Part No.	Description	Dimensions	1	10
662725CM	Logic probe kit	4.0"L x 0.75"Dia.	\$9.95	\$8.96

For more Robotics visit [www.RobotStore.com](http://www.RobotStore.com)

## Super Snooper Big Ear Audio Amplifier Kit

17-piece kit

Listen through walls, hear conversations across the room or listen to sounds a block away. Add a parabolic reflector or mount the microphone in a tube to isolate unwanted noise and make a directional microphone.

• Operating voltage: 9VDC (recommend P/N 151095CM, pg 251)

Includes: Instructions, outputs for speakers or headsets, and schematic

Part No.	Description	Dimensions	1	10
151204CM	Audio amplifier kit	1.8"L x 1.0"W x 0.6"H	\$10.95	\$9.95

## FM Stereo Transmitter Mini Kit

Run your own FM radio station! Plug any stereo signal into this unit and it will be transmitted to any FM radio. Tuneable from 88–108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation.

Requires: 9VDC power supply (recommend P/N 151095CM, pg 251)

Part No.	Description	Dimensions	1	10
151239CM	FMST-100 stereo kit	2.7"L x 2.0"W	\$29.95	\$26.95

## Velleman FM Transmitter

Mini FM transmitter (100–108MHz) ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner.

• Integrated pre-amplifier (sensitivity 5mV)

Requires: 9-12VDC power supply (recommend P/N 20626CM, pg 327)

Part No.	Product No.	Dimensions	1	10
117604CM	K1771	1.8"L x 2.8"W	\$10.25	\$10.05

## Velleman FM Radio Kit

Easy to assemble – no coils to wind. Receives the complete FM band of 88–108MHz.

• With on/off switch, volume control, and LED indicator  
• Single adjustment

Requires: 12VDC @ 100mA power supply (recommend P/N 100095CM, pg 241)

Part No.	Product No.	Dimensions	1	10
211772CM	MK118	4.8"L x 3.3"W	\$21.95	\$19.95

## One-Chip AM Radio Kit

• Uses an IC that performs as an RF amp, detector and AGC in an AM radio

Requires: 9V battery (recommend P/N 151095CM, pg 251)

Part No.	Description	Dimensions	1	10
125161CM	AM radio kit	4.0"L x 1.3"W x 0.5"H	\$13.95	\$12.95

## Velleman 10 LED Mono VU Meter Kit

• Instant visualization of audio signal levels  
• Easy hook up to a LINE level (LOW input) signal source  
• Special input (HIGH input) is provided, which allows direct connection to a speaker  
• Frequency range: 20Hz to 30kHz  
• Dot or bar display mode selectable

Requires: 15VDC @ 300mA max. power supply (P/N 189982CM, pg 242)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147643CM	K4304	2.7"L x 1.4"H	0.3	\$16.99	\$15.99

## Velleman Universal Mono Pre-Amplifier

For audio applications with insufficient input signal.

• Output impedance: 1k $\Omega$  • Max. input signal: 40mV  
• Frequency range: 20Hz – 20kHz  $\pm$ 3dB  
• Adjustable output level: 40dB max.

Requires: 10/30VDC @ 10mA power supply (recommend P/N 20626CM, pg 327)

Part No.	Product No.	Dimensions	1	10
117612CM	K1803	1.2"L x 1.8"W	\$8.95	\$7.95

Velleman

## 7-Watt Amplifier Kit

22-piece kit

- Music output power: 7W @ 4 $\Omega$
- RMS output: 3.5W @ 4 $\Omega$  & 2W @ 8 $\Omega$
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection

Requires: 15VDC (8–18VDC) @ 500mA power supply (recommend P/N 155803CM, pg 242); speakers

Part No.	Product No.	Dimensions	1	10
127255CM	K4001	2.2"L x 1.4"W	\$13.95	\$12.49

## 18-Watt Bridged Mono Amplifier Kit

17-piece kit

- Drives 3–8 $\Omega$  speaker
- Based on the Hitachi HA13118 amplifier IC

Requires: 12VDC supply (recommend P/N 100095CM, pg 241)

• Blue Part No. = Limited Quantity Available

Part No.	Description	1	10
136207CM	18 watt amplifier kit	\$15.59	\$13.95

## CEBEK 20-Watt RMS Amplifier Module

- Input signal: 250mV • Maximum current: 2A
- Output impedance: 4–8 $\Omega$  (mono) • Pre-assembled
- Terminals: 0.1" matching disconnect solderless terminals
- Size: 2.8"L x 2.8"W x 1.6"H

Requires: Power supply: 12V @ 2A (recommend P/N 143714CM, pg 237)

Part No.	Description	1	10
147838CM	E-11 mono amplifier	\$24.95	\$22.49

## Velleman 30-Watt Stereo Power Amplifier

38-piece kit

General purpose stereo amp for audio applications.

- RMS output: dual 15W @ 4 $\Omega$  or dual 10W @ 8 $\Omega$
- Frequency bandwidth: 7Hz to 60kHz (-3dB)
- Separation: 70dB
- Supply voltage: 24VCT @ 2A (recommend P/N 101864CM, pg 245)

Part No.	Product No.	Dimensions	1	10
129138CM	K4003	2.8"L x 2.0"W	\$29.95	\$26.95

## 200W Mono/Stereo Amplifier

57-piece kit

Three keywords to describe this amplifier:

**universal**—a stereo or a mono amplifier with three input sensitivity settings;

**robust**—overload and short-circuit protection against incorrect power supply polarity and thermal protection; and lastly **compact**.

- RMS output power: 2 x 50W/4 $\Omega$ ; 2 x 40W/8 $\Omega$
- RMS mono-bridged power: 100W/8 $\Omega$
- Total music output: 200W
- Harmonic distortion: 0.01% @ 1kHz
- Signal to noise ratio: 102dB
- Stereo channel separation: 85dB
- Input impedance: 22k $\Omega$
- Input sensitivity: 300mV/550mV/1V switchable
- Power supply:  $\pm$ 28VDC

Part No.	Product No.	Dimensions	1	10
645301CM	K4004B	8.3"W x 3.4"H x 2.5"D	\$91.15	\$89.75

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## Guitar Pre-Amplifier w/ Headphone Output ■ 34-piece kit

An electric guitar cannot be connected to just any amplifier or audio installation. This pre-amplifier has been designed for this purpose and provides you with a headphone output, allowing you to practice without disturbing others. Fitted with a special device for tone adjustment to create your own sound.

- Headphone output: 2 x 50mW/32Ω (max.)
- Sound adjustment
- Adjustable input sensitivity
- Power supply: 9V battery (not included)

Part No.	Product No.	Dimensions	1	10
645327CM	K4102	4.1"L x 2.8"W x 1.2"H	\$34.99	\$32.99

## Velleman Sound Generator Kit ■ 61-piece kit

- Produces 10 different sounds w/ adjustable speed: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns
- Push-button keyboard

**Requires:** 8Ω, 1 watt speaker; 9V battery (recommend P/N 151095CM, pg 251)

Part No.	Product No.	Dimensions	1	10
127562CM	K4401	2.8"L x 2.8"W	\$29.95	\$26.95

## Siren Kit ● 20-piece kit

- Oscillator is off until you press the switch, then a rising tone is produced until a steady value is reached
- If switch is released, tone starts dropping until it cuts off
- Circuit designed around a dual op amp connected as an oscillator and driver

**Requires:** 9V battery (recommend P/N 151095CM, pg 251)

Part No.	Description	Dimensions	1	10
125137CM	9V siren	2.0"L x 0.8"W x 0.5"H	\$7.95	\$7.15

## FM Stereo Transmitter Kit ■ 45-piece kit

Transmit to any FM radio tunable from 88 to 108MHz. Tune your receiver to a clear spot on the dial, a spot you cannot hear any signal, then tune the FMC-2000 until you hear its signal. Compatible with any of your audio system components. Plug in your CD player or tape deck and have a wireless link to any FM radio. Transmit music from your computer to any FM Radio. Transmit music on one channel, sing on the other. Clarity is excellent, approx. 40dB stereo separation. Transmits up to 200 ft.

Part No.	Product No.	1	10
662741CM	FMC-2000	\$54.95	\$46.46

## Radio Direction Finder Kit ▲ 69-piece kit

A direction finder antenna that connects to any UHF/VHF Ham Radio or Scanner; great for finding hidden transmitters that are raising havoc with your repeater. Tune your radio to the frequency of the transmitter you are trying to locate (from 140MHz to 500MHz); you will hear a tone and the transmitter modulation at the same time. To further check your progress, the signal level meter of the radio should rise.

Part No.	Product No.	1	10
662733CM	SDF-1	\$44.95	\$40.46



### Free Technical Support

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## Electronic Record/Playback Module ▲ 64-piece kit

High-quality, natural voice/audio reproduction. Can be used to greet visitors, play pranks, or warn off burglars. EEPROM technology with 100-year message retention, and up to 20 seconds of recording time per module. No memory loss in case of power failure. 2 play modes: push once to play message / play message until button is released.

- Speaker output: 12mW, 8 - 16Ω
- Sampling frequency: 6.4kHz
- Power consumption: DC power supply: 4mA standby, 100mA (max.) during playback; battery operated: 20uA standby, 100mA (max.) during playback
- Power supply: 8 - 18VDC or 6V battery (4 AA or AAA not included)

Part No.	Product No.	Dimensions	1	10
645335CM	K8030	3.7"L x 2.9"W x 1.0"H	\$33.85	\$29.59

## 200W Power Amplifier Module

- Fully discrete design using epitaxial Darlington transistors
- DC supply circuit on board with LED indication
- Ideal for active speaker system or subwoofer, guitar amp, home theatre systems, instrument amp, etc.
- Comes fully adjusted and tested
- Overload and short-circuit protection
- 100Wrms power @ 4Ω load
- Distortion: 0.02% @ 1kHz/10W
- Frequency response: 3Hz to 200kHz (-3dB)
- Signal to noise ratio: 115dB
- PCB dimensions: 107x62mm (approx.)
- Recommended power transformers: 230VAC input, 2 x 30VAC output; 115/230VAC input, 2 x 25VAC output
- 200W music power @ 4Ω load
- 70Wrms power @ 8Ω load
- Damping factor: >800
- Sensitivity: 0.6Vrms
- Power supply: 25-30VAC, 120VA

Part No.	Product No.	Dimensions	1	10
645239CM	VM100	4.2"L x 2.4"W	\$66.05	\$64.99

## Wide Band Amplifier Kits ■

### 662750CM: 7-pieces

- 1MHz to 1.5GHz, 7.5dB NF
- 1dB compression = +11dBm
- Gain: 1MHz - 8dB to 1.5GHz - 5dB
- Power requirements: 12VDC @ 50mA

### 662768CM: 7-pieces

- 1MHz to 2.5GHz, 2.8dB NF
- 1dB compression = 0dBm
- Gain: 1MHz - 20dB to 2.5GHz - 6dB

### 662784CM: 11-pieces

- Gain: 4MHz - 29dB to 1.9GHz - 17dB
- Power requirements: 12VDC @ 56mA
- 4MHz to 1.9GHz, 3dB NF
- 1dB compression = +8dBm

Part No.	Product No.	Dimensions	1	10
662750CM	WBA4	1.2"L x 0.8"W	\$14.95	\$13.46
662768CM	WBA6	1.2"L x 0.8"W	19.95	17.96
662784CM	WBA64	2.5"L x 0.8"W	29.95	26.55

## Audio Stereo Amplifier Kit ■ 32-piece kit

This kit teaches how amplifiers take a small signal and amplify it to drive two small speakers or headphones. Provides up to 1-Watt of low-distortion audio power. The harmonic distortion is 0.2% and the voltage gain is up to 46dB.

Part No.	Product No.	Dimensions	1	10
662670CM	EBST-11	2.8"L x 2.3"W	\$9.95	\$8.96

## Velleman Voice Activated LEDs Kit ■ 33-piece kit

Uses sound to activate the flashing of 4 bright red LEDs.

- Power consumption: 0.5mA min./12mA max.
- Adjustable sensitivity

**Requires:** 8-15VDC power supply (P/N 100095CM, pg 241) or 9VDC battery (P/N 151095CM, pg 251)

Part No.	Product No.	Dimensions	1	10
147571CM	MK103	2.5"L x 1.6"W x 1.4"H	\$9.95	\$8.95



## velleman Parking Radar Kit ■ 55-piece kit

Parking in tight places can be difficult, but this unit can tell you when you have come within an adjustable preset distance of the object near you.

- Detection range: 5cm – 1.5m; angle: 5°
- Transmitter frequency: 40kHz
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)

**Requires:** 10-15VDC @ 16mA max (recommend P/N 100095CM, pg 241) or auto power plug (recommend P/N 115001CM, pg 163)

Part No.	Product No.	1	10
129120CM	K3502	\$39.95	\$34.95

## velleman Stroboscope Kit ▲ 19-piece kit

Make your own snapshots and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz.

- Input: 110VAC

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
117639CM	K5300	3.5"L x 2.6"W	0.5	\$15.85	\$15.15

## velleman 3-Channel Light Organ Kit ■ 80-piece kit

Add a 3-channel dancing light display to your music. Each channel displays a different range of sound.

- Frequency ranges are adjustable
- Microphone input
- Maximum load 2A per channel
- Each output has individual sensitivity control

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
131684CM	K8017	6.7"W x 5.6"D x 1.7"H	1.2	\$49.95	\$39.95

## IR LED Illuminator Kit ● 41-piece kit

- 36 high powered infrared LEDs
- At 24" the beam is approximately 3.5' across
- Improve low-light camcorder and CCD camera images without visible light

**Requires:** 12-15VDC power supply (recommend P/N 114825CM, pg 241)

Part No.	Description	Dimensions	1	10
157964CM	IR illuminator kit	2" Dia.	\$16.95	\$15.29

## Light Sensitive Relay Kit ■ 20-piece kit

Build a stable and advanced circuit that uses light to control a SPDT 10A relay.

- Dimensions: 2.4"L x 1.3"W x 1.0"H

**Requires:** 12VDC power supply (P/N 100095CM, pg 241)

Part No.	Description	Wt. (lbs.)	1	10
136223CM	Light relay kit	0.1	\$12.95	\$11.65

## Stop Light Controller Kit ■ 36-piece kit

This kit will simulate the operation of red, yellow, and green traffic lights. Applications such as model train displays, three way traffic intersections, dancing light in a party room, and other countless applications. If you would need to control larger lamps you can connect a relay or an I/O module to each output.

- Red, yellow and green LEDs included
- Power requirements: 7.5 to 18VDC

Part No.	Cross Ref. No.	Dimensions	1	10
662709CM	STOP-1	2.8"L x 2.3"W	\$17.95	\$16.16

## Ultrasonic Motion Detector Kit ■ 49-piece kit

Detect motion/movement 13 - 23 ft. away and trigger an alarm w/ this kit.

- 2 boards: one with matched pair of ultrasonic transducers to detect motion from 13 to 23 ft. away; 2nd board contains crystal controlled oscillator & all circuits
- Switchable latch, red LED indicator
- Solder pad output to drive external relay or circuits
- Size: main board: 2.8"L x 2.0"W x 0.8"H; transducer board: 2.8"L x 0.6"W x 0.9"H

**Requires:** 9V battery (recommend P/N 151095CM, pg 251)

● Blue Part No. = Limited Qty Available

Part No.	Description	1	10
125090CM	Ultrasonic alarm kit ●	\$29.95	\$26.95

## Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time differential between sent and echoed signals. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105CM) or RS-232 signal (P/N 151482CM).

- Sensing range: 4" to 60"
- Sensor diameter: 1.8"
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

**Requires:** 15 to 24VDC @ 40mA (not included), recommend P/N 114825CM, pg 241

**134105CM:** • Output voltage: 0-10VDC  
• Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")

**151482CM:** • RS-232 output

**Includes:** Software diskette and computer cable

Part No.	Description	Wt. (lbs.)	1	10
134105CM	Sensor - voltage output	0.2	\$159.95	\$143.95
151482CM	Sensor - RS-232 output	1.0	\$179.95	\$161.95

## velleman Scrolling Message Kit ■ 76-piece kit

Create your own scrolling message with this 35-LED graphic display kit. Press "SET" to change a particular character, "UP" or "DOWN" arrow to select the character, and end your scrolling message with the "<" character.

- 35-LED display
- Maximum 16 characters

**Requires:** 9 to 12VDC @ 20mA (recommend P/N 100845CM, pg 241)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
200310CM	MK124	3.5"L x 2.6"W x 1.8"H	0.2	\$24.95	\$22.45

## Moving Message Board

Ideal for advertisements and meetings.

Two scrolling speeds and memory backup power (up to 3 months). Max. 600 characters can be programmed.

- 1.25" dot matrix LED display
- 10 characters wide display
- Large memory capacity: 4 messages + 1 alarm message
- Alarm message is activated by N.O. switch
- Low-battery indicator
- Select fast or slow scrolling speed
- Memorized data are saved by backup battery (2 x AAA-batteries)
- Power supply: 12VDC/500mA adapter included

Part No.	Product No.	Dimensions (external/display)	1	5
645474CM	MML-10	11.8"L x 3.5"W x 2.8"H/10.8"L x 1.4"H	\$151.95	\$144.35

## velleman Flashing LED Sweetheart Kit ■ 46-piece kit

This kit shows a beating heart. Great for decorations!

- Power consumption: 8mA

**Requires:** 8 to 15VDC wall transformer (P/N 100095CM, pg 241) or 9VDC battery (P/N 151095CM, pg 251)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147555CM	MK101	2.5"L x 2.4"W x 1.2"H	0.1	\$11.95	\$10.95

## velleman Flashing LED Kit ■ 23-piece kit

Activates 2 flashing LEDs for applications such as model building. Flashing speed controlled by potentiometers.

- 5.5" wire w/ 9V battery connector
- Consumption: 4mA min.

**Requires:** 9VDC battery (P/N 151095CM, pg 251)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
147580CM	MK102	1.3"L x 1.4"W x 0.6"H	0.1	\$7.95	\$7.19

## 2-Digit Serial LED Display w/ Interface Kit ■ 46-piece kit

- Bright, red jumbo-sized 7-segment displays (57mm)
- Up to 255 units can be separately addressed
- Power supply: 9-12VDC @ 120mA per display
- RS-232 interface: 2400 baud/8 data bits/no parity/one stop bit
- Can be linked to create large readout for score-keeping, timing and counting

Part No.	Description	Dimensions	1	5
645221CM	2-digit serial LED kit	2.9"L x 2.3"W x 1.3"H	\$47.29	\$43.31

## Lightbulb Kit 5-piece kit

Booklet & kit components provide a complete learning experience, from basic electricity to the effects of vacuum and different filament materials. Whether as a gift or as the basis of a prize-winning Science Fair presentation, this kit is the perfect choice for "bright" kids! Plus, the refurbishment pack (available separately) includes all materials needed to reuse the kit.



Part No.	Description	1	10
285595CM	Build your own lightbulb kit	\$47.75	\$45.46
285616CM	Refurbishment filament pack for kit	12.15	11.58

**SALE**

## 3D Flashing Christmas Tree Kit 36-piece kit

- 16 flashing red LEDs
- Low power consumption: 8mA
- Extra green and yellow LEDs to customize your tree
- Size: 3.1"L x 3.5"W x 4.0"H

**Requires:** 9V battery (recommend P/N 151095CM, pg 251)

Part No.	Product No.	1	10
211781CM	MK130	\$10.95	\$9.95

Shown with Battery  
(not included)



## Flashing Pumpkin Kit 71-piece kit

- Random flash effect simulates flickering candle
- 1 extra high intensity yellow LED illuminates the pumpkin
- 25 bright LEDs • On/Off switch • Size: 3.2"Hx4.0"Wx1.3"D

**Requires:** 9V battery (P/N 198791CM, pg 251)

Part No.	Product No.	1	10
236081CM	MK145	\$9.99	\$8.99

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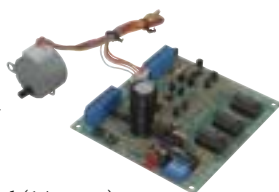
## Motor Drive Kits

### Stepper Motor Controller & Motor Kit 102-piece kit

Useful in any home automation project where positioning is needed, such as controlling valves, HVAC duct dampers, natural light through window blinds, remotely turning down water heaters, or any robotic projects. This controller card can be used with P/N 128928CM (K8000 – computer interface board) and 16 of these kits can be connected to a single computer interface board. Both bipolar and unipolar motors can be used with this controller card (1A max.).

- Includes a high precision stepping motor (0.9 degree stepping angle).
- IC controlled via P/N 128928CM (K8000) • Adjustable drive speed
- Check status of switches via computer interface board or drive another motor
- Power supply: 7–25VAC or VDC @ 1.5A (recommend, P/N 237067CM, pg 241)
- Emergency stop can be sent to one or all cards
- Program in Visual Basic, Turbo Pascal for DOS & Quick Basic (Windows® 95/98/ME)

Part No.	Product No.	Dimensions	1	5
263628CM	K8005	3.9"L x 3.5"W	\$59.95	\$56.95



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## 30-Day Money-Back Guarantee



If you're not completely satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.

## Fiber Optic Lab Kit

Kit contains nine fiber optic experiments and all the electronic components needed.

- Fiber optic cable transmission
- Characteristics of connectors and splices
- Speed of opto-electronic devices
- Making a light guide
- Index-matching procedures
- Receiver design
- Weight: 0.7 lbs.
- Fiber optic transmitter
- Fiber termination techniques



Part No.	Description	1	10
169914CM	Lab course and lab kit	\$44.95	\$41.39

## Infrared Transmitter/Receiver Kit 26-piece kit

Transmit a 40kHz modulated IR signal a distance of 6' to 8'. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40kHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.

• Transmitter size: 1.0"L x 0.8"W • Receiver size: 1.4"L x 1.2"W

**Requires:** 6 to 15VDC battery (recommend P/N 151095CM, pg 251)

Part No.	Cross Ref. No.	Description	1	10
177092CM	IR-2	Transmitter/receiver	\$24.95	\$22.49



## Power Supply Kits

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### 1 Amp Power Supply Kit 12-piece kit

Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators.

- Output current max.: 1.5A
- Max. input voltage: 40V
- Max. dissipation: 15W (cooled)

**Requires:** 25.2VCT @ 2A quick connect power transformer (recommend P/N 102103CM or equivalent, pg 245)

Part No.	Product No.	Dimensions	1	10
117621CM	K1823	2.1"L x 2.1"W	\$12.95	\$11.65



### Dual Adj. Regulated Power Supply Kit 48-piece kit

Build a dual adjustable power supply for your circuits.

- Adjustable positive/negative supplies  $\pm 5$  to  $\pm 15$ VDC, 175mA–750mA per supply
- LED on indicator
- 120VAC input
- PC board construction

Part No.	Cross Ref. No.	Dimensions	Wt. (lbs.)	1	10
20626CM	JE215	5.1"L x 3.5"W x 2.0"H	2.1	\$22.95	\$20.49



### DC to Pulse-Width-Modulator Kit 40-piece kit

The circuit converts a DC voltage into a series of pulses, directly proportional to the value of the DC voltage.

- Operating voltage: 8 to 35VDC
- PWM frequency: 100Hz to 5kHz (adjustable)
- Min. consumption: 35mA • Max. output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC
- PWM range: 0 to 100%

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120539CM	K8004	3.3"L x 1.9"W x 1.8"H	0.5	\$22.95	\$20.49

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### DC Voltage Monitor Kit 46-piece kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 0.5V, or 0.25V steps. Monitor 8V or 5V in 0.25V steps. Great for boats, motor homes, model planes or race car NiCADs.

Part No.	Cross Ref. No.	Dimensions	1	10
181833CM	VM-1	2.7"L x 1.3"W	\$8.95	\$7.95





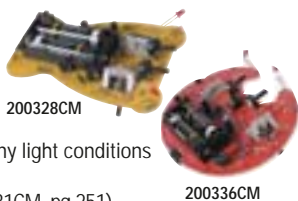
## velleman Micro Bug Kits ■

A brightly colored miniature bug-shaped robot that is attracted to light.

- Two open chassis sub-miniature motors
- LED "eyes" indicate driving direction
- Adjustable light sensitivity that suits almost any light conditions
- Stops in total darkness • Size: 4.0" x 2.4"

Requires: 2 AAA batteries (recommend P/N 249181CM, pg 251)

Part No.	Product No.	Description	Pieces	1	10
200328CM	MK127	Running	26	\$18.95	\$16.95
200336CM	MK129	Crawling	29	21.45	19.35



## velleman Computer Control Interface Kit ▲ 301-piece kit

Connects to printer port without interruption of the printer. Works well in control applications.

- Full opto-isolation with computer
- Analog inputs: 4 (AD1 to AD4), resolution: 256 steps
- Analog outputs: 8 (DAC1 to DAC8), resolution: 64 steps
- 3.5" disk with routines in C++, QBASIC, Turbo Pascal • 16 I/Os w/ opto coupler

Requires: DB25 cable (P/N 67256CM, pg 107)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128928CM	K8000	9.3"L x 5.3"W	1.7	\$139.95	\$125.95



## Universal Relay Controller Card Kit ▲ 64-piece kit

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- 8 channels expandable to 16 using 8 each P/N 144186CM
- Relay output: maximum 5A/220VAC
- TTL or 5V CMOS inputs (recommend P/N 34315CM, pg 38)
- Contact voltage: 12VDC @ 250mA

Requires: 220 or 125VAC power source

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
128910CM	K6714	8.3"L x 5.9"W	1.8	\$59.95	\$53.95
144186CM	VR15M121C relay (JZC-22F)		0.028	3.79	3.39



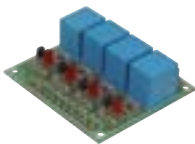
## Relay Card ■ 29-piece kit

Connecting a number of relays to the outputs of an electronic network may seem very simple, but in reality it could create some problems regarding the cabling. This kit provides an attractive and compact alternative. Easy to assembly and can be connected instantly.

- 4 x 3A relay outputs

Requires: 9VDC @ 300mA power supply (recommend P/N 133891CM, pg 241)

Part No.	Description	Dimensions	1	10
239476CM	Relay card kit	3.0"L x 2.7"W	\$19.99	\$18.99



## USB Interface Card Module

Interface board has 5 digital input channels and 8 digital output channels. In addition, there are two analog inputs and two analog outputs with 8-bit resolution. Inputs/outputs can be expanded by connecting more cards to the PC's USB port (max. of four).

**Diagnostic/Test Software**

- Separate output/input test
- Clear all/set all function
- Counter function on inputs 1 and 2 with adjustable debounce
- Analog output set sliders
- Analog input bar-graph indication

Part No.	Description	1	10
645263CM	USB interface card module	\$65.55	\$64.49



## Obstacle Avoidance Robot Kit ▲ 107-piece kit

Six crank motion legged robot utilizes an infrared light sensing system to find obstacles and maneuvers itself around them. This IR detection kit includes an infrared diode, photo diode, IC, 2 DC motors and all hardware.

Part No.	Description	Dimensions	Wt. (lbs.)	1	10
140821CM	Spider kit	12.0"L x 7.0"W x 3.5"H	1.2	\$51.49	\$46.89



## velleman Remote Control by Telephone ▲ 116-piece kit

- Turn on or off up to three devices (lights; check alarm systems; water heater; garage doors)
- Check conditions of a switch (open or closed)
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable)

Requires: 12VAC @ 300mA (P/N 101258CM, pg 243)

Includes: Relay for one output (10A/250VAC)

Part No.	Product No.	Dimensions	Wt. (lbs.)	1	10
120678CM	K6501	4.1"L x 5.1"W	0.7	\$69.49	\$62.59



## Hovercraft Kit ● 25-piece kit

This super kit is fun to build and a "blast" to run, but there's a bonus: education! Through the kit's curriculum (available online), budding scientists and engineers will learn principles of electricity and circuits, propellers, conversion of energy and other core concepts. And at the end of the learning process, they'll have a cool, battery-powered hovering vehicle that can glide over any smooth surface, even water!



Part No.	Description	Price
285641CM	Hovercraft kit	\$21.79

## Robotic Arm Trainer Kit ▲ 109-piece kit

**Five Axes of Motion**

Teaches basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five-switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.

- Max. length: 14.2"
- Max. height: 20.1"
- Max. lifting capacity: 4.6 oz.
- Grip opens to 2" wide
- Shoulder movement @ 120°
- Elbow moving range @ 135°
- Wrist rotation clockwise or counter clockwise: 340°
- Rotates left to right at the base 350°
- Weight: 4.5 lbs.

Requires: 4 D batteries (recommend P/N 215845CM, pg 251)

Part No.	Description	1	10
157366CM	Robotic arm kit (unassembled)	\$75.79	\$68.25
159345CM	Robotic controller software (DOS 4.2 & up, Windows® 95/98)	84.95	76.49



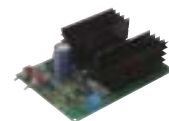
## Battery Charger Kits

### velleman Lead Acid Battery Charger Kit ■ 62-piece kit

For charging and maintaining both open and sealed type 6V or 12V lead-acid batteries. Can be hooked-up to the unit for an indefinite time, and will be kept in optimal condition.

Requires: 18V/25VA transformer (P/N 149956CM, pg 245)

Part No.	Description	1	10
239521CM	Lead acid battery charger kit	\$36.95	\$35.15



### Solar Cell Battery Charger Module

Going "off the grid" with solar cell or other alternative power set-ups? Then you need this electronic watchdog to supervise your battery charging! (A 5-amp fuse and fuse-holder recommended, not supplied.) LED indicators clearly denote charging and "full" conditions.

- Input: 14V to 22V (open circuit voltage), nominal -12V
- Max. input current: 5A
- Inrush voltage: battery voltage
- Interrupting voltage: battery voltage approximately 13.9V
- Own power consumption: <3.9mA (with LED on)
- Size: 2.8"Lx2.0"Wx1.1"H

Part No.	Description	1	10
314211CM	Solar cell battery charger module	\$16.95	\$16.05



Look for these symbols on all of our kits to find the level that is right for you.

● = Beginner

■ = Intermediate

▲ = Expert



See next page for Ordering Information

**Fax 1-800-237-6948 Order 24 hours/7 days a week!**

Jameco, 1355 Shoreway Road, Belmont, CA 94002 Call: 1-800-831-4242 International TEL: 1-650-592-8097 FAX: 1-650-592-2503

**1 Ordered By** (We will ship to this address unless you enter #2).Customer No. \_\_\_\_\_ VIP No. \_\_\_\_\_  
(see back cover)

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Name of Requisitioner \_\_\_\_\_

Title \_\_\_\_\_

Name of Purchasing Agent \_\_\_\_\_

Title \_\_\_\_\_

Street Address/PO Box Number \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

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Contact information (please provide all information and check method preferred)

(\_\_\_\_\_) \_\_\_\_\_

Daytime phone number - Required for Credit Card Orders

(\_\_\_\_\_) \_\_\_\_\_

Fax Number

E-mail Address \_\_\_\_\_

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**3 Method of Payment**☐ Prepaid (check enclosed) ☐ C.O.D. (\$7.50 service charge)☐ Net 30 Days (Account must be previously established. Authorized P.O. # required.)

PURCHASE ORDER NO.: \_\_\_\_\_

☐ Credit Card

Credit Card users only:



VISA

MC

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DISCOVER

Credit Card Number          Exp. Date: Month   Year     Name on card \_\_\_\_\_

Billing Address Street/PO Box \_\_\_\_\_

City/State/Zip \_\_\_\_\_

**4**

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	PAGE NO.	WEIGHT (LBS.)	UNIT PRICE	TOTAL
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

PRODUCT WEIGHT	SUB-TOTAL
Packaging Weight (Add 1/2 lb. + 1/2 lb. for each 10 lbs. of product)	
Total Weight (Round to next lb.)	

**5 Please Check Shipping Method Below**

- ☐ **Priority Mail (USPS)** .....\$5.95 for 1st lb., \$1.49 for each additional lb.
- ☐ **Ground** .....\$6.49 for 1st 2 lbs., \$0.79 for each additional lb.
- ☐ **2 Day Air Service** .....\$13.95 for 1st 2 lbs., \$1.99 for each additional lb.
- ☐ **Next Day Air Service (PM delivery)** .....\$21.95 for 1st 2 lbs., \$2.49 for each additional lb.
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Some restrictions may apply. See order information (next page) for other shipping methods and conditions of sale.  
Shipping rate is based on a single package shipment.

\$5.00 processing fee on U.S. orders under \$25; \$7.50 for international orders under \$40 (fees waived for web orders)	
Please Add Applicable Sales Tax (California Only)	
Shipping (See Item 5)	
C.O.D. (add \$7.50)	
Credit Memo (please attach)	—
<b>TOTAL</b>	

**6****JAMECO**® *thanks you for your order!*# \_\_\_\_\_ / \_\_\_\_\_  
FOR OFFICE USE ONLY

# Ordering Information

## PAYMENT OPTIONS

### Credit Card/Check Cards

We accept VISA, MasterCard, American Express and Discover. No surcharge. Your account will not be charged until your order is shipped. When ordering, please advise name on card and credit card billing address.

### Check or Money Order

You may pay by check or money order in U.S. funds, drawn on a U.S. bank.

### Open Account

It is easy to open an account with Jameco. Contact us for obtaining open account status.

### C.O.D.

Personal checks are accepted. Please add \$7.50 per C.O.D. order. Include the name and address of your bank and your account number.

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All foreign orders must be prepaid with a credit card (see approved credit cards above), wire transfer, traveler's check, cashier's check or money order drawn on a U.S. bank in U.S. funds only. Please do not send cash. Jameco cannot accept letters of credit as a form of payment.

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**In-Person:**

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1-650-592-8097 Monday – Friday from

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- Credit Department ([credit@jameco.com](mailto:credit@jameco.com))
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Please call us at 1-800-831-4242.

## POLICIES

### Confirming Orders

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### No Minimum Order

A \$5.00 processing fee will be added to U.S. orders under \$25.00. This fee will be waived on web orders. All international orders below \$40.00 will incur a \$7.50 processing fee.

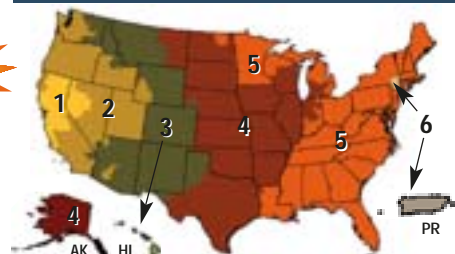
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Prices are effective 07-10-06. In the unlikely event you find a lower price in a printed catalog or magazine, simply call us with the details at the time of purchase. We'll beat any price by 10% as long as it's above our cost. Prices and discounts are subject to change without notice. We are not responsible for any typographical errors in this catalog. Photos are representative; product appearance may vary.

## RoHS COMPLIANCE

Jameco obtains all RoHS compliance status information from its suppliers solely and does not verify or confirm such status.

## SHIPPING INFORMATION



Guaranteed Delivery Time for UPS Ground (Business Days)

1 day	2 days	3 days
4 days	5 days	6 days

Orders received Mon.–Fri. by 6:00 p.m. Eastern Standard Time will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth \$5.00 towards your next Jameco purchase. This offer does not apply to orders waiting for credit approval or backordered items.

### Options and Rates\*

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### Ground Service

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\* The above rates apply to single box shipments through UPS that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs. or for other carriers. Jameco reserves the right to rebill shipping surcharges for customer misaddressed packages.

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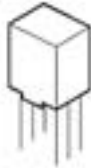
See page 92 for our complete selection of Audio Transformers

TRIAD

## Audio Transformers

- Epoxy molded case
- Gold plated leads
- Meets the rigid requirements of MIL-T-27E
- High pot tested @ 1000Vrms
- 150VDC working voltage

NEW



♣ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

Part No.	Prod. No.	No. of Circuits	Power Level	Matching Impedance (Ω)		Primary DC mA max.	Resistance (Ω)		Overall Turn Ratio	Pricing		
				Primary	Secondary		Primary	Secondary		1	10	100
630387CM	SP-5♣	3	25	50,000CT	1000CT	0	3800	75	7.1:1	\$19.95	\$15.36	\$12.13
630328CM	SP-20♣	3	50	10,000CT	1200CT	1	1050	200	2.88:1	17.15	14.05	11.96
630336CM	SP-21♣	3	550	10,000CT	2000CT	1	1050	300	2.24:1	17.45	14.30	13.63
630344CM	SP-29♣	3	50	10,000CT	500CT	1	1050	80	4.47:1	18.59	14.22	12.37
630361CM	SP-33♣	1	50	1000	50	3	145	80	4.4:1	16.39	10.79	9.90
630379CM	SP-49♣	2	50	300	600	7	41	98	1:1.42	20.89	14.21	12.61
630395CM	SP-51♣	2	50	900CT	600	4	104	96	1.22:1	18.19	11.96	10.97
630408CM	SP-52♣	2	50	1500CT	600	3	168	92	1.58:1	20.25	13.76	12.21
630416CM	SP-66♣	3	50	10,000CT	10,000CT	1	1000	1300	1:1	16.09	10.60	9.72
630424CM	SP-70♣	1	50	600	600	3	72	92	1:1	16.65	10.95	10.04
630352CM	SP-310♣	—	—	0.1H	—	5	15	—	—	2.95	2.41	2.18

See pages 215-237 & 267 for more Power Supplies.



## Rackmount Power Supplies

### N + 1 DC Power System with Battery Back-up Charging

- Input voltage: 105 to 125VAC @ 50-60Hz
- Charging current: 8A max.
- Chassis and cover: steel (black epoxy powder coat)
- Size: 19"W x 16"D x 3.5"H



NEW

Part No.	Product No.	Output (VDC @ A)	Current Limiting	Weight (lbs.)	1	10	25
673272CM	SEC-40BRM	13.8 @ 40	48A	20.5	\$449.95	\$427.45	\$406.09
673281CM	SEC-60BRM	13.8 @ 60	72A	22.0	507.65	473.25	453.49
673299CM	SEC-80BRM	13.8 @ 80	96A	23.5	584.35	555.19	527.39
673310CM	SEC-100BRM	13.8 @ 100	120A	25.0	659.95	626.95	595.65

- Input voltage: 100 to 130VAC @ 50/60Hz
- Output current (surge): 24A x 2
- Chassis: aluminum (black anodized)
- Cover: steel (black epoxy powder coat)
- UL/CUL approved
- Size: 19"W x 8.7"D x 3.5"H



NEW

Part No.	Product No.	Output (VDC @ A)	Weight (lbs.)	1	10	25
673328CM	SEC-1223R2	13.8 @ 23Ax2	8.2	\$240.15	\$228.15	\$216.75

### N + 1 DC Power System with Battery Back-up and Charging Function

- N+1 redundancy
- Volt/ampere meter
- Allows connection of external batteries for back-up
- Operation status LED
- Fan failure and warning LED
- Input voltage range: 105 to 125VAC, 60Hz
- Remote monitoring and indication
- Output regulation: 1%
- Short circuit, current limit, fan failure, input surge suppression protection
- Size: 19"W x 15.9"D x 3.6"H

NEW



- Nominal VDC: 27.6V
- Output ripple: 150mVp-p
- Forced air cooling by 2 fans

Part No.	Product No.	Output (VDC @ A)	Weight (lbs.)	1	10	25
677396CM	SEC-2430BRM	27.6 @ 30	22	\$524.39	\$498.15	\$473.25
677484CM	SEC-2450BRM	27.6 @ 50	25	671.75	638.15	606.25



## 600W Single Output Rackmount Power Supplies

- AC Input active surge current limiting
- Short circuit, over load, over voltage, over temperature protection
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- Ripple and noise (max.): 150mVp-p
- Input voltage: 90-132VAC / 180-264VAC switch selectable
- Size: 19.5"W x 3.5"H



NEW

Part No.	Product No.	Output (VDC @ A)	1	10	25
673336CM	600-12RM	12 @ 50	\$252.75	\$240.15	\$228.15
673395CM	SE-600-24RM	24 @ 25	252.75	240.15	228.15
673408CM	SE-600-48RM	48 @ 12.5	252.75	240.15	228.15

See page 208 for our complete selection of Knobs.

## Alcoswitch

## Knobs

NEW



550483CM



550619CM



550475CM



550740CM



550782CM



550707CM

### Straight Knurl w/ Top & Side Indicator

Part No.	Product No.	Color	Shaft Size	H" x Dia."	1	10	100
550483CM	KLN1250A1/4♣	Natural	1/4"	.281 x 1.252	\$14.89	\$10.85	10.31
550512CM	KLN500B1/4♣	Black	1/4"	.281 x .500	8.15	6.50	5.64
550521CM	KLN500B1/8♣	Black	1/8"	.281 x .500	8.09	6.27	6.22

### Straight Knurl w/ Spinner No Indicator

550580CM	KN1751AS1/4♣	Natural	1/4"	1.65 x 1.75	\$22.09	\$20.83	\$19.79
550598CM	KN1751BS1/4♣	Black	1/4"	1.65 x 1.75	22.09	20.83	19.79

### Straight Knurl w/ Indicator Line

550619CM	KN500B1/4♣	Black	1/4"	.625 x .500	\$6.85	\$5.81	\$5.52
550660CM	KN700B1/4♣	Black	1/4"	.625 x .750	9.49	7.33	6.96
550678CM	KN900A1/4	Natural	1/4"	.625 x .949	9.95	9.43	8.96
550686CM	KN900B1/4	Black	1/4"	.625 x .949	10.85	9.43	8.96

\* No indicator line

### Straight Knurl w/ Indicator Line on Skirt

550475CM	KFS500B1/4♣	Black matte	1/4"	.811 x .382	\$9.05	\$7.06	\$6.71
----------	-------------	-------------	------	-------------	--------	--------	--------

\* w/ #4-40 set screw; \*\* w/ #6-32 set screw

### Straight Knurl w/ Pointer and Indicator Line

550740CM	KPN500B1/8♣	Black	1/8"	.625 x .500	\$13.15	\$12.35	\$11.72
550766CM	KPN700B1/4♣	Black	1/4"	.625 x .750	15.55	14.75	14.01
550774CM	KPN900A1/4♣	Natural	1/4"	.625 x .937	18.85	14.01	12.33
550782CM	KPN900B1/4♣	Black	1/4"	.625 x .937	19.05	14.01	12.33

### Straight Knurl w/ Arrowhead Indicator, two-toned

550635CM	KN501BA1/4♣	Blk/natural	1/4"	.445 x .500	\$7.55	\$5.81	\$5.52
----------	-------------	-------------	------	-------------	--------	--------	--------

### Straight Knurl w/ Arrowhead Indicator on Skirt

550707CM	KNS501BA1/4♣	Blk/natural	1/4"	.625 x .750	\$11.85	\$9.17	\$8.71
550723CM	KNS701BA1/4♣	Blk/natural	1/4"	.625 x 1.12	10.99	10.35	9.84

### Diamond Knurl w/ Indicator Line

550432CM	KD500B1/4♣	Black	1/4"	.630 x .500	\$6.55	\$6.21	\$5.90
550459CM	KD700B1/4♣	Black	1/4"	.630 x .750	8.55	6.21	5.90

♣ This product ships from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

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See pages 191 & 195 for more Switches



## KS Series Single Pole Switches

- Typical applications: telecommunications, industrial, instrumentation
- Positive tactile feel • Electrical life: 10,000 actuations • PC terminals
- Contact resistance: below 100mΩ initial @ 2-4VDC, 100mA
- Insulation resistance: 1,000MΩ min.
- Dielectric strength: 1,000V<sub>RMS</sub> • Case: glass filled nylon (UL94V-0)
- Terminal seal: epoxy • SPST OFF-MOM
- Actuator: ABS or polycarbonate ABS blend, matte finish, black
- Cap: round depression • Cap color: black except for P/N 583357CM – red

NEW



Part No.	Product No.	Contact Rating	Movable Contacts	Stationary Contact/Term.	1	10	100
583306CM	KS11R21CBD▲	0.4VA @ 20VAC/VDC	Beryllium copper w/ gold over nickel	Copper alloy w/ gold over nickel	\$1.85	\$1.70	\$1.36
583349CM	KS11R22CQE▲	25mA @ 50VAC/VDC	Beryllium copper silver plated	Copper alloy silver plated	1.99	1.89	1.85
583357CM	KS11R23CQD▲	25mA @ 50VAC/VDC	Beryllium copper silver plated	Copper alloy silver plated	1.06	1.03	1.00

See pages 171 – 176 for our complete selection of Snap-Action Switches



NEW

## General Purpose Snap-Action Switches

Part No.	Product No.	Current Rating	Contact Form	Actuator	Terminals	1	10	100
617001CM	35-461▲	15A @ 480VAC	SPDT	Plunger	0.250" OC	\$2.25	\$2.07	\$1.91
617019CM	35-462▲	15A @ 480VAC	SPDT	Plunger	0.250" OC	4.79	4.39	4.02
617027CM	35-463▲	15A @ 480VAC	SPDT	Roller	0.250" OC	5.29	4.82	4.41
617941CM	35-982▲	20A @ 125VAC	SPDT	Plunger	Solder/screw	14.65	12.53	10.56
622441CM	35-3908▲	20A @ 125VAC	SPDT	Plunger	Screw	13.65	11.99	10.40
622467CM	35-3916▲	20A @ 125VAC	SPDT	Lever	Screw	9.95	8.55	7.28



NEW

## Miniature Snap-Action Switches

Part No.	Product No.	Current Rating	Contact Form	Actuator	Terminals	1	25	50
617596CM	35-824▲	10A @ 125VAC	SPDT	Lever	0.187" OC	\$3.09	\$2.99	\$2.90
617609CM	35-827▲	10A @ 125VAC	SPDT	Lever roller	0.187" OC	5.15	4.83	4.56
617650CM	35-840▲	10A @ 125VAC	SPDT	Lever	0.187" OC	5.65	4.01	3.82
617668CM	35-842▲	15A @ 125VAC	SPDT	Lever	0.187" OC	4.09	3.75	3.61
617676CM	35-844▲	15A @ 125VAC	SPDT	Lever	0.187" OC	2.79	2.42	2.07
617684CM	35-846▲	10A @ 125VAC	SPDT	Lever roller	0.187" OC	3.65	3.09	2.61
617692CM	35-848▲	15A @ 125VAC	SPDT	Lever roller	0.187" OC	3.49	2.94	2.46
617801CM	35-872▲	10A @ 125VAC	SPST NO	Pin plunger	0.187" OC	3.15	2.68	2.29
617836CM	35-878▲	10A @ 125VAC	SPDT	Simulated roller	0.187" OC	4.55	4.24	4.01
617844CM	35-880	10A @ 125VAC	SPDT	Lever	0.187" OC	2.39	2.21	2.07
622475CM	35-3932▲	20A @ 250VAC	SPDT	Pin plunger	0.187" OC	5.95	5.20	4.53
622483CM	35-3934▲	10A @ 125VAC	SPDT	Lever	0.187" OC	2.55	2.23	1.96
622521CM	35-3945▲	15A @ 277VAC	SPDT	Lever	0.187" OC	5.65	4.95	4.31

See pages 158-162 for more Solderless Terminals.



## Insulation Displacement Connectors (IDC)

### Ultimate Wire Tap

This Tap-And-Run splice is actually a fully insulated female quick disconnect that can be spliced onto a wire and then mated with a fully insulated male quick disconnect, all without stripping, twisting, soldering or the need for special tools.

NEW



Part No.	Product No.	AWG	Description	100	500	1000
494549CM	19216-0009-C▲	12	Yellow wire tap	\$ .181	\$ .174	\$ .166

### Self-Tapping (ID) Tap & Run Connectors

Using only ordinary channel-lock pliers, these color-coded connectors make quick, reliable, pre-insulated splices without stripping, twisting, soldering or the need for special tools. They will tap-splice, pigtail-splice, parallel splice or in-line splice insulated copper wire conductors for a wide range of applications.

NEW



Part No.	Product No.	AWG	Description	100	500	1000
494522CM	19216-0003-C▲	14-18	Multi-lock connector, blue insulation	\$ .091	\$ .086	\$ .06
494531CM	19216-0005-C▲	18-22	Multi-lock connector, red insulation	.114	.105	.086

▲ These products ship from a separate warehouse and may not ship the same day. Each warehouse will accrue separate shipping charges. Sorry, we're unable to ship COD.

See pages 127, 131, 132, 146, 151, 156, 158, 163, & 297-299 for more Crimping Tools.

## AMP Pro-Crimper II Hand Tools

Commercial grade hand tool for crimping various products. Features ratchet control to provide complete crimp cycle. Accepts both pinned- and shouldered-style die sets. Locators are provided with pinned-style die sets for proper contact and wire positioning, and to help minimize contact rotation and bending during crimping.



526176CM: Hand crimper tool  
526352CM: Die set for Type II/VI pin & socket contacts

Part No.	Product No.	1	5
526176CM	58448-2▲	\$159.59	\$145.06
526352CM	58495-1▲	145.19	138.26

See pages 284-286 for more Oscilloscopes.

## 20MHz 2-Channel Analog Oscilloscope

- 6" rectangular screen with internal graticule & scale
- Vertical deflection: 1mV/div to 1V/div (5MHz, 3dB) x 5 gain selected
- Horizontal deflection: 0.1μs/div to 2.0s/div in 1-2-5 sequence, 23 steps
- Max. input voltage: 400V (DC + AC peak)
- Input voltage: 115/230VAC w/ line voltage selector
- ADD function measures sum of two signals
- Size: 12.8"W x 15.7"D x 5.2"H • Weight: 16.8 lbs.



NEW

Includes: Two (X1/X10) test probes, power cord & manual

Part No.	Product No.	1	5
685311CM	SK0200	\$399.95	\$379.95

See page 262-263 for more Memory Card Accessories.



## PCMCIA Smart Card Terminal

- High quality PCMCIA smart card terminal for laptops
- CT-API support; OCF compatible
- Supports maximal smart card speed
- Speed: up to 423kbps
- Clock speed: up to 8MHz
- Card power supply: 60mA max.
- Supports Windows® XP/2000/98/ME/NT4.0



NEW

Part No.	Product No.	1	10	100
577344CM	SR-4044▲	\$101.79	\$96.70	\$71.38

## 30-Day Money-Back Guarantee

If you're not satisfied with your purchase, simply return the product within 30 days for a refund or exchange. Details on page 330.



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### Test & Prototyping

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